



**US Army Corps
of Engineers**
Waterways Experiment
Station

Technical Report HL-93-3
June 1993

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Demonstration Erosion Control Project Monitoring Program

Fiscal Year 1992 Report

Volume II: Appendix A

Hickahala-Senatobia Watershed Profiles and Cross Sections

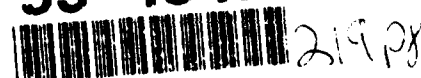
*by Terry N. Waller, Lisa C. Hubbard
Hydraulics Laboratory*

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Hickahala-Senatobia Watershed Profiles and Cross Sections

by Terry N. Waller, Lisa C. Hubbard
Hydraulics Laboratory

U.S. Army Corps of Engineers
Waterways Experiment Station
3909 Halls Ferry Road
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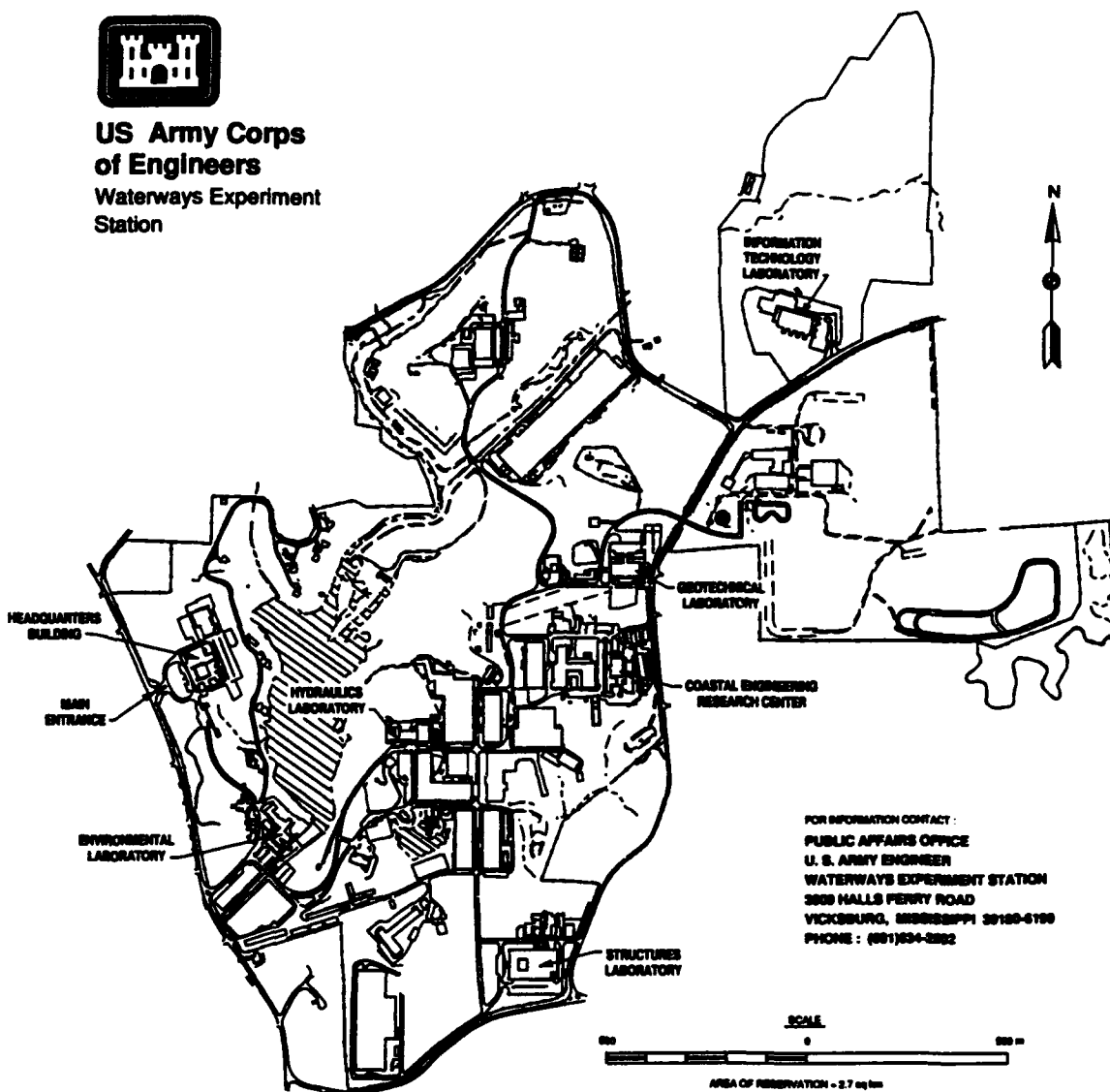
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Appendix A

Hickahala-Senatobia

Watershed Profiles and Cross Sections

Channel Profiles

Comparison plots of channel profiles in the Hickahala-Senatobia watershed from 1985 and 1991 are shown in Plates A1-A34. The channels represented in these profile plots are as follows:

| Creek | Plate |
|--------------------------|---------|
| Thornton | A1 |
| Steammill | A2 |
| Basket | A3-A4 |
| James Wolf | A5-A7 |
| Martin Dale | A8 |
| Whites | A9 |
| Beards | A10-A11 |
| Catheys | A12 |
| South Fork Hickahala | A13 |
| Senatobia | A14-A17 |
| Mattic | A18-A19 |
| Tolbert Jones | A20 |
| Nelson | A21-A22 |
| Hickahala | A23-A29 |
| Billys | A30 |
| West Ditch Creek | A31-A33 |
| Southwest Fork Hickahala | A34 |

Channel Cross Sections

Comparisons plots of channel cross sections in the Hickahala-Senatobia watershed from 1985 and 1991 are shown in Plates A35-A215. The channels represented in these cross-section plots are as follow:

| Creek | Plate |
|----------------------|-----------|
| Thornton | A35-A38 |
| Steammill | A39-A42 |
| Basket | A43-A52 |
| James Wolf | A53-A76 |
| Martin Dale | A73-A76 |
| Whites | A77-A82 |
| Beards | A83-A89 |
| Catheys | A90-A95 |
| South Fork Hickahala | A96-A100 |
| Senatobia | A101-A126 |
| Mattic | A127-A134 |
| Tolbert Jones | A135-A141 |
| Nelson | A142-A152 |
| Hickahala | A153-A185 |
| Billys | A186-A195 |
| West Ditch | A196-A215 |

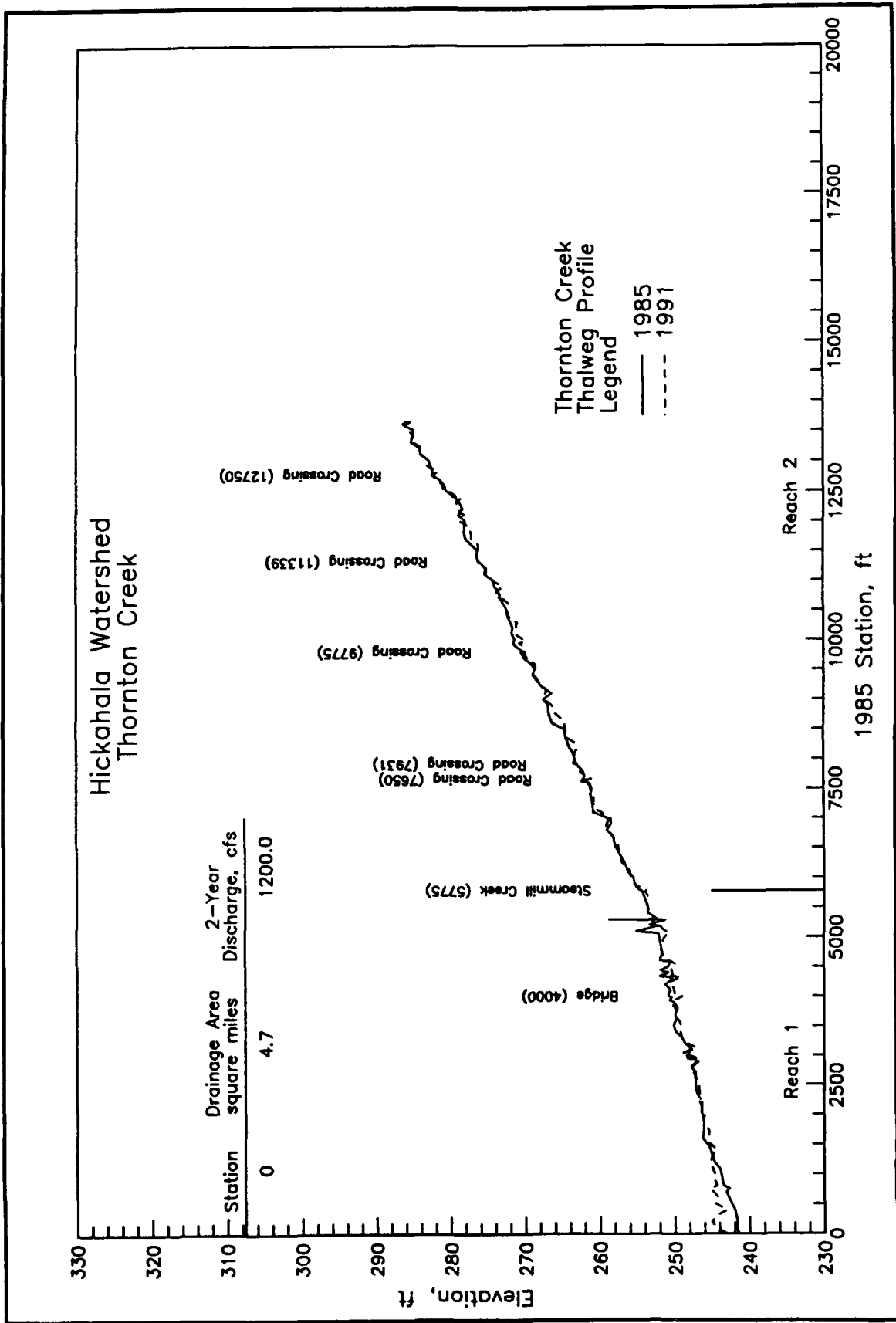


PLATE A1

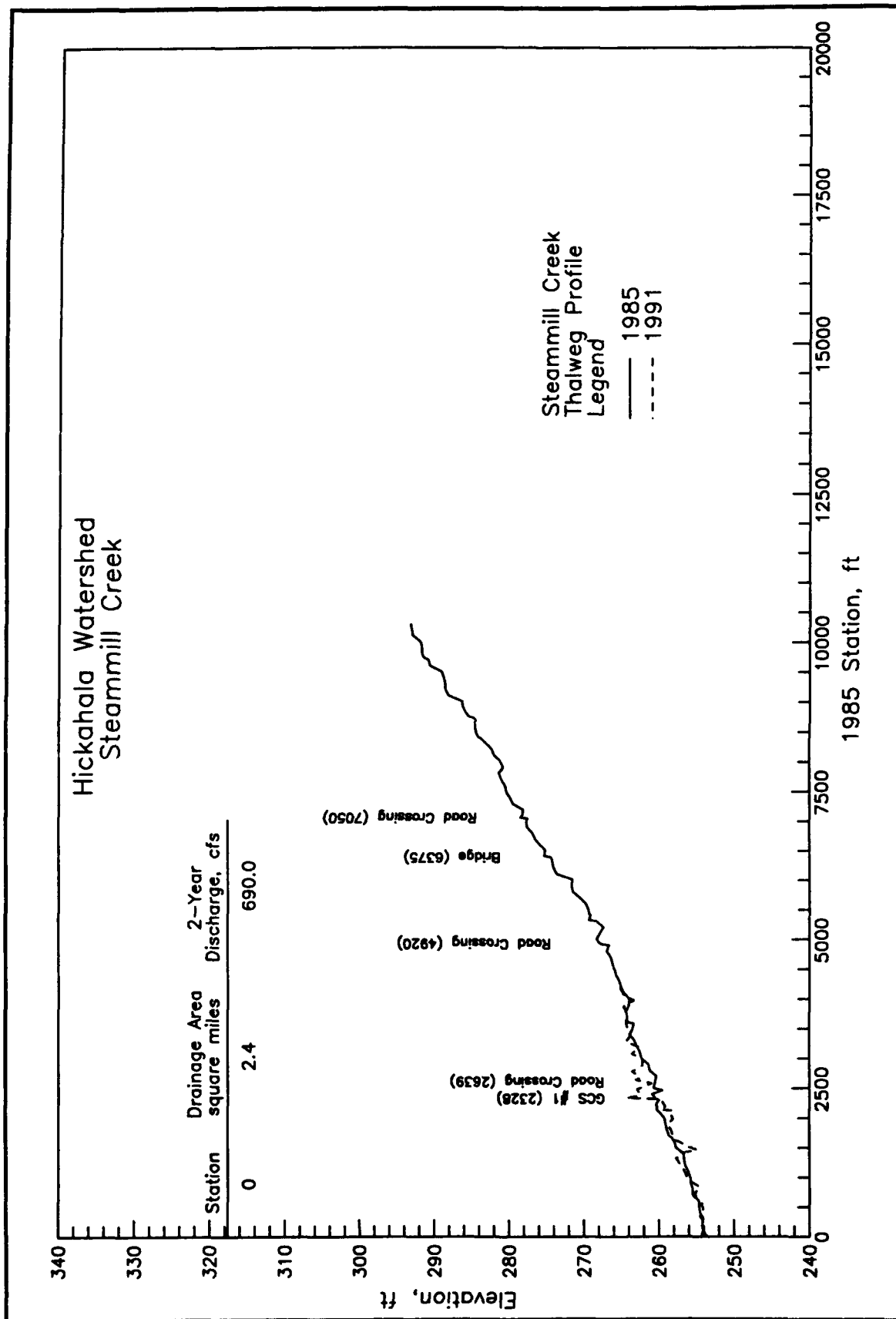
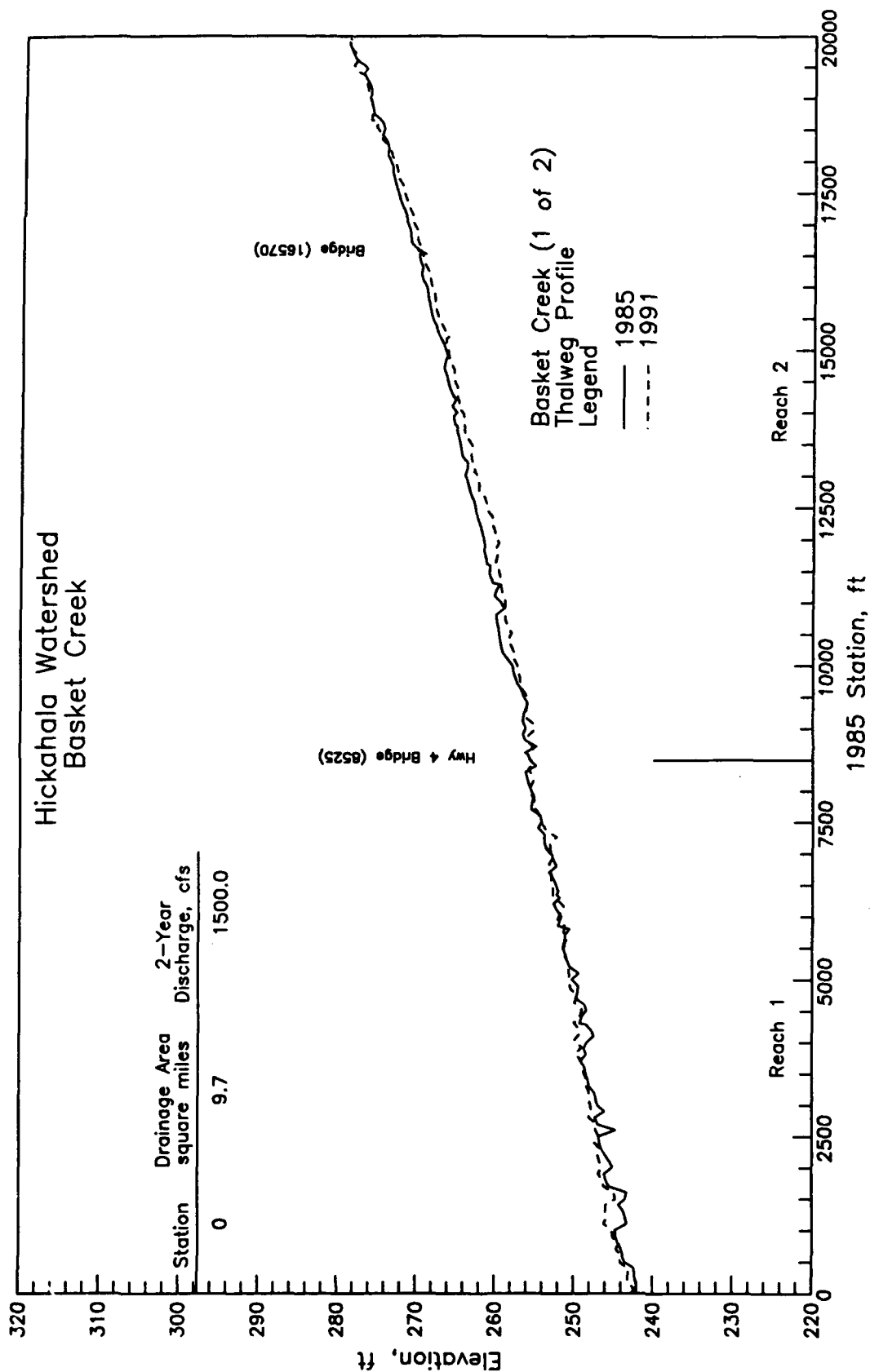


PLATE A2

Hickahala Watershed Basket Creek

| Station | Drainage Area square miles | 2-Year Discharge, cfs |
|---------|-------------------------------|--------------------------|
| 0 | 9.7 | 1500.0 |



Basket Creek (1 of 2)
Thalweg Profile
Legend

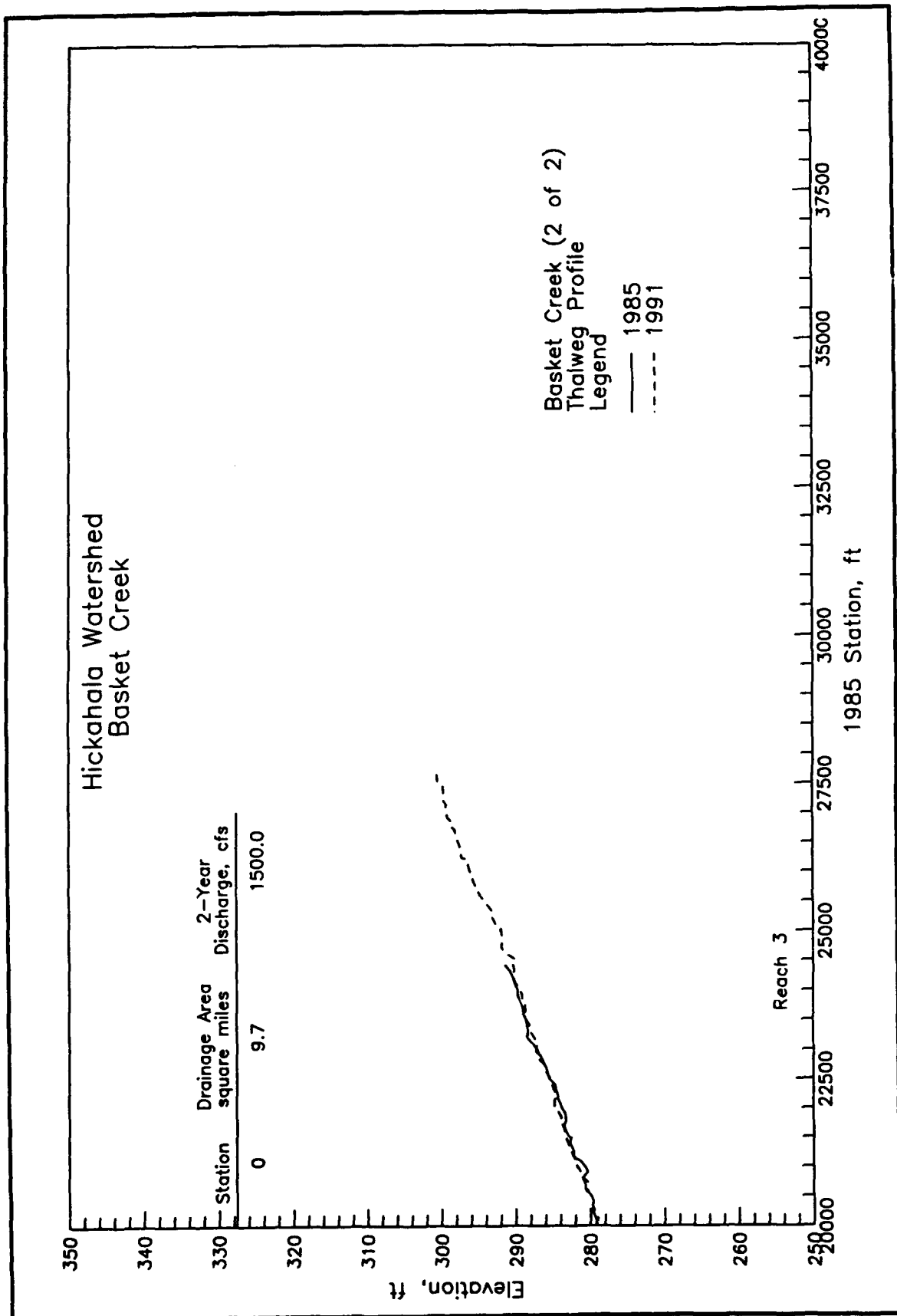
— 1985
- - - 1991

Reach 2

Reach 1

1985 Station, ft

PLATE A4



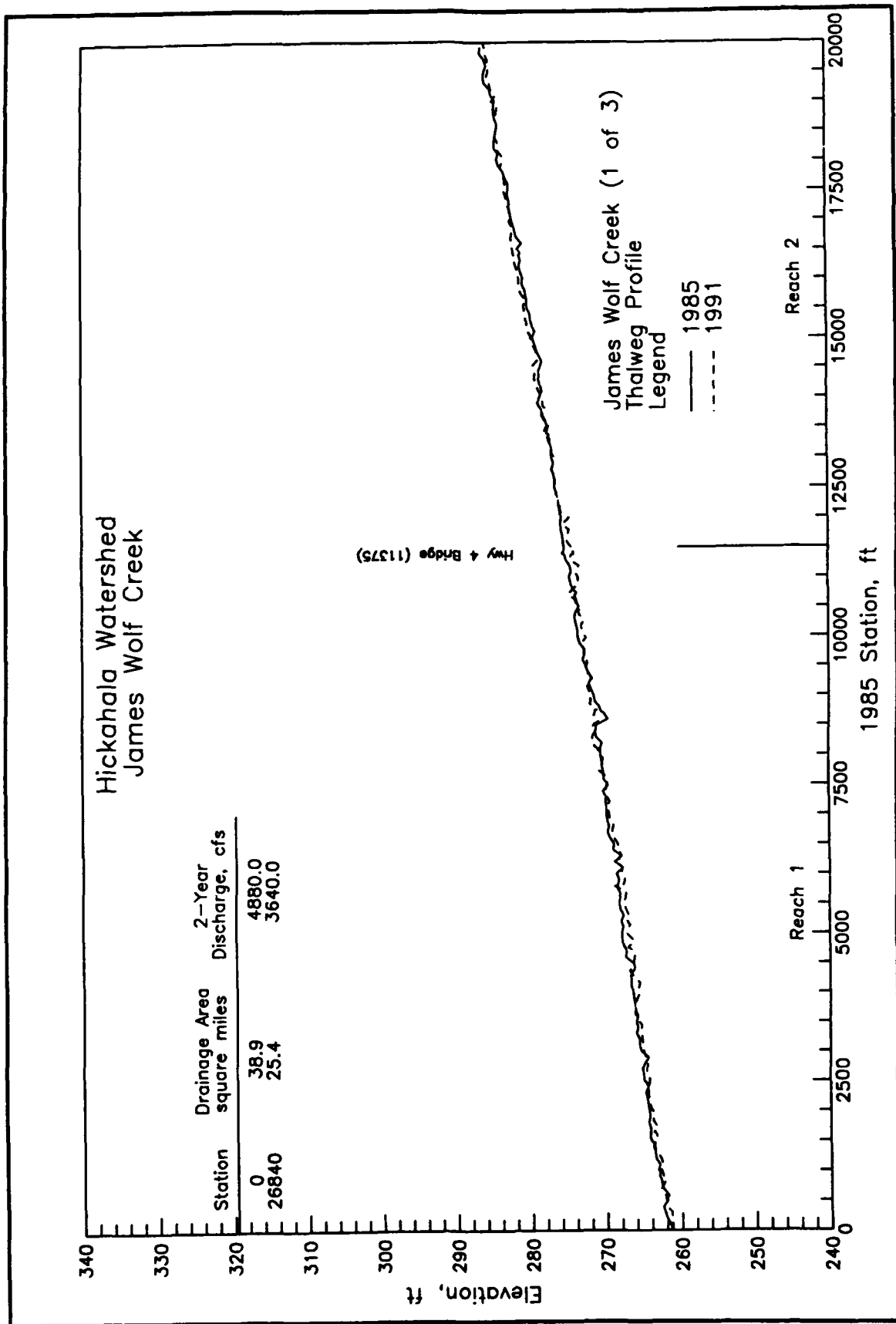


PLATE A5

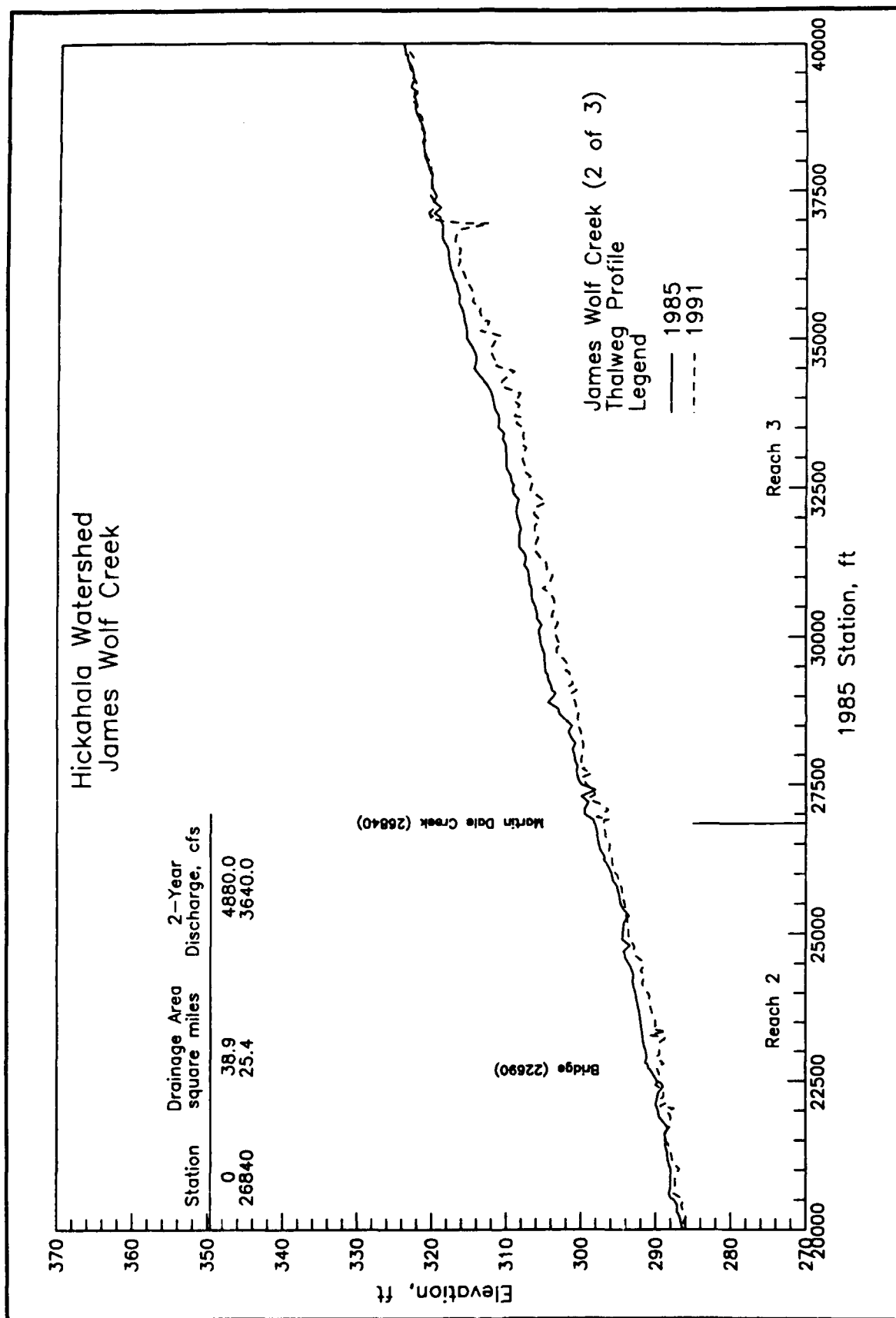
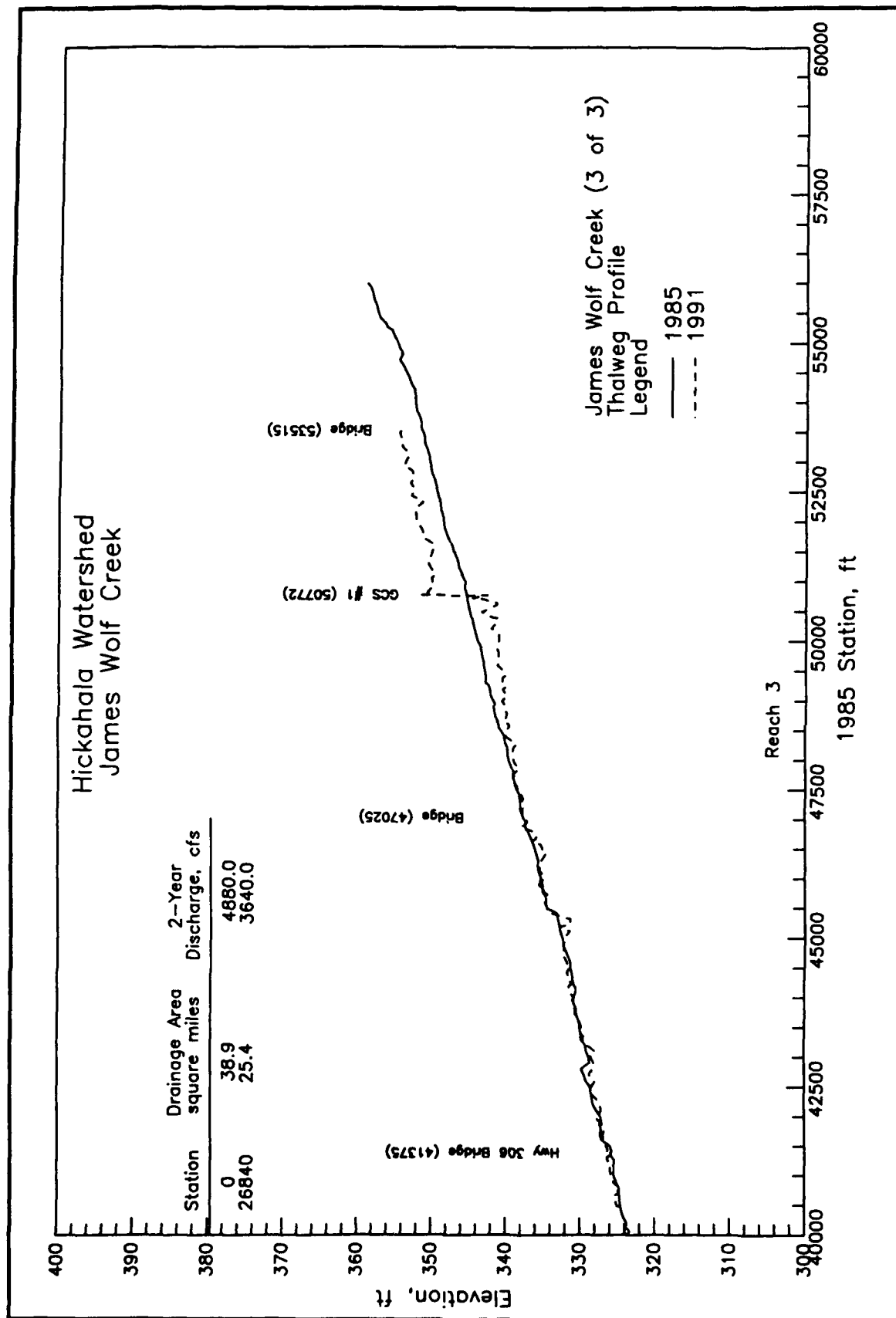


PLATE A6



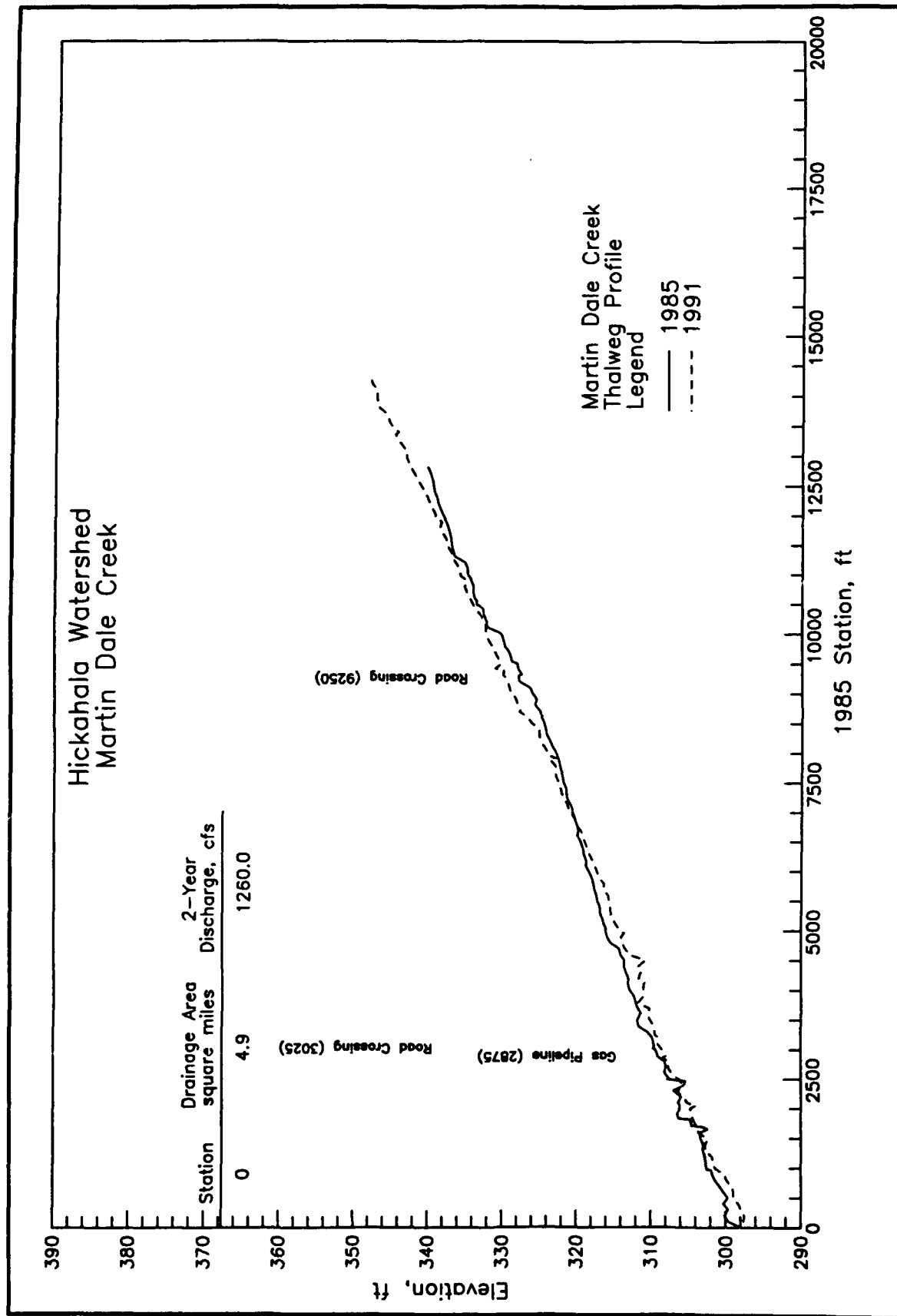


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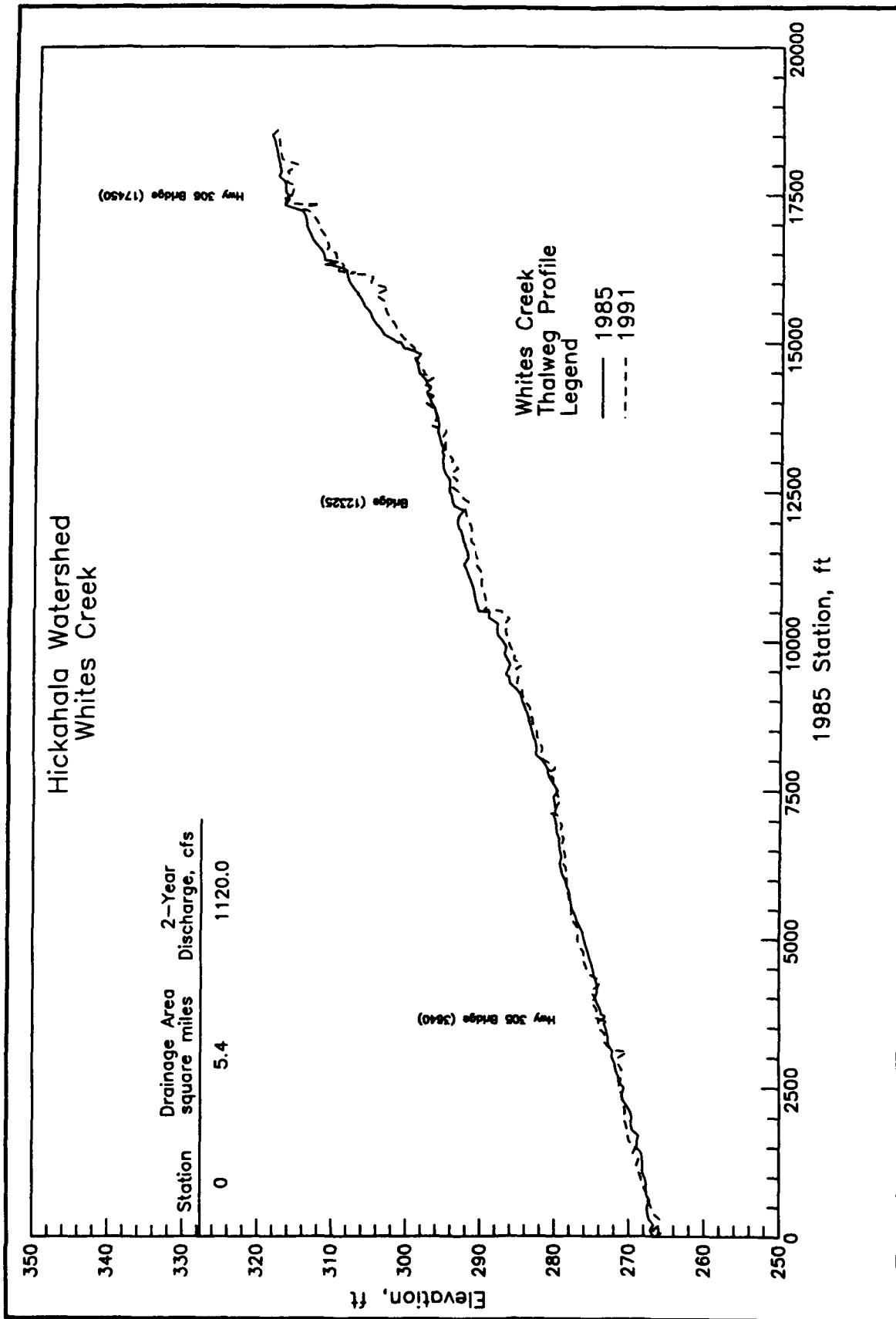


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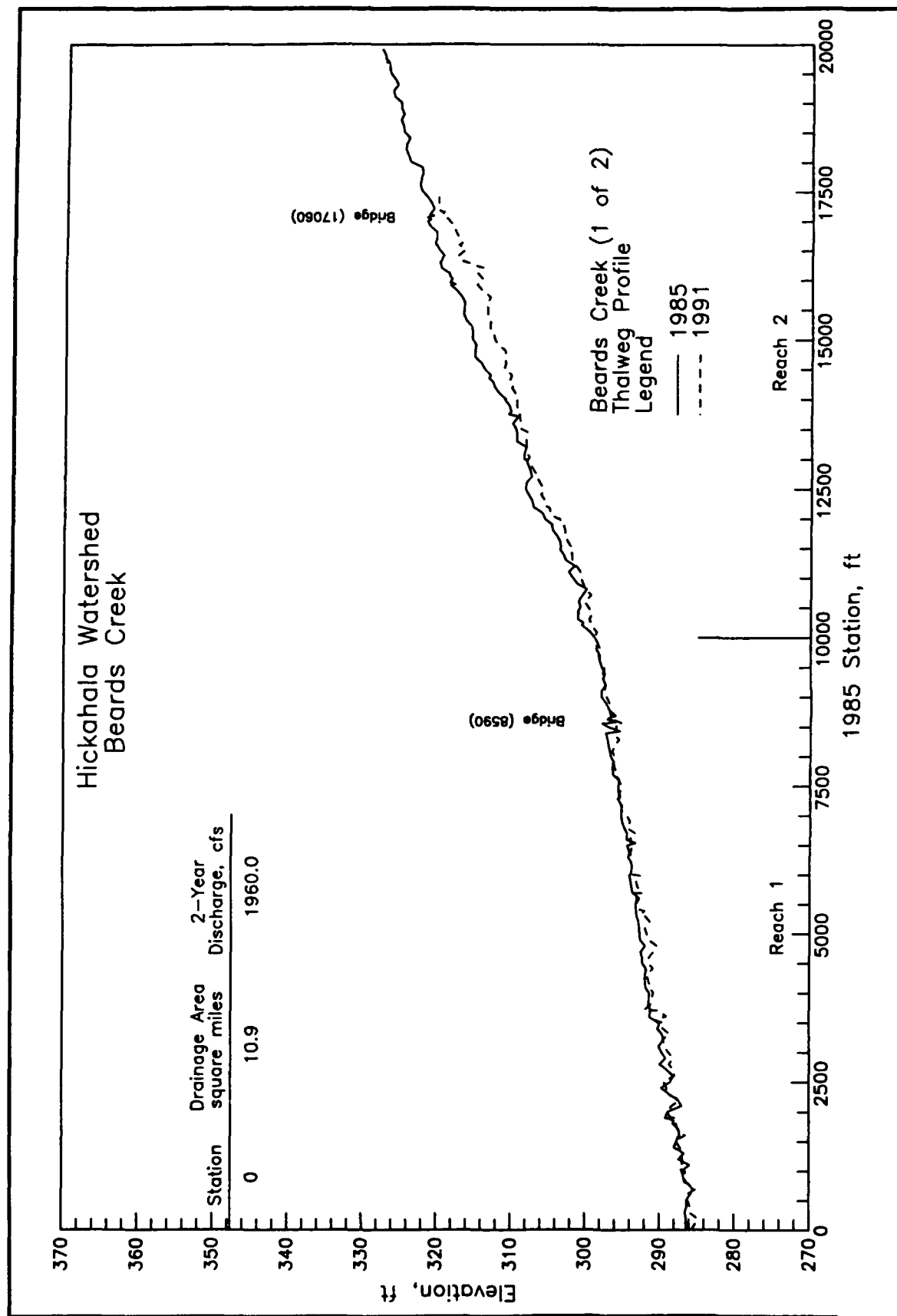
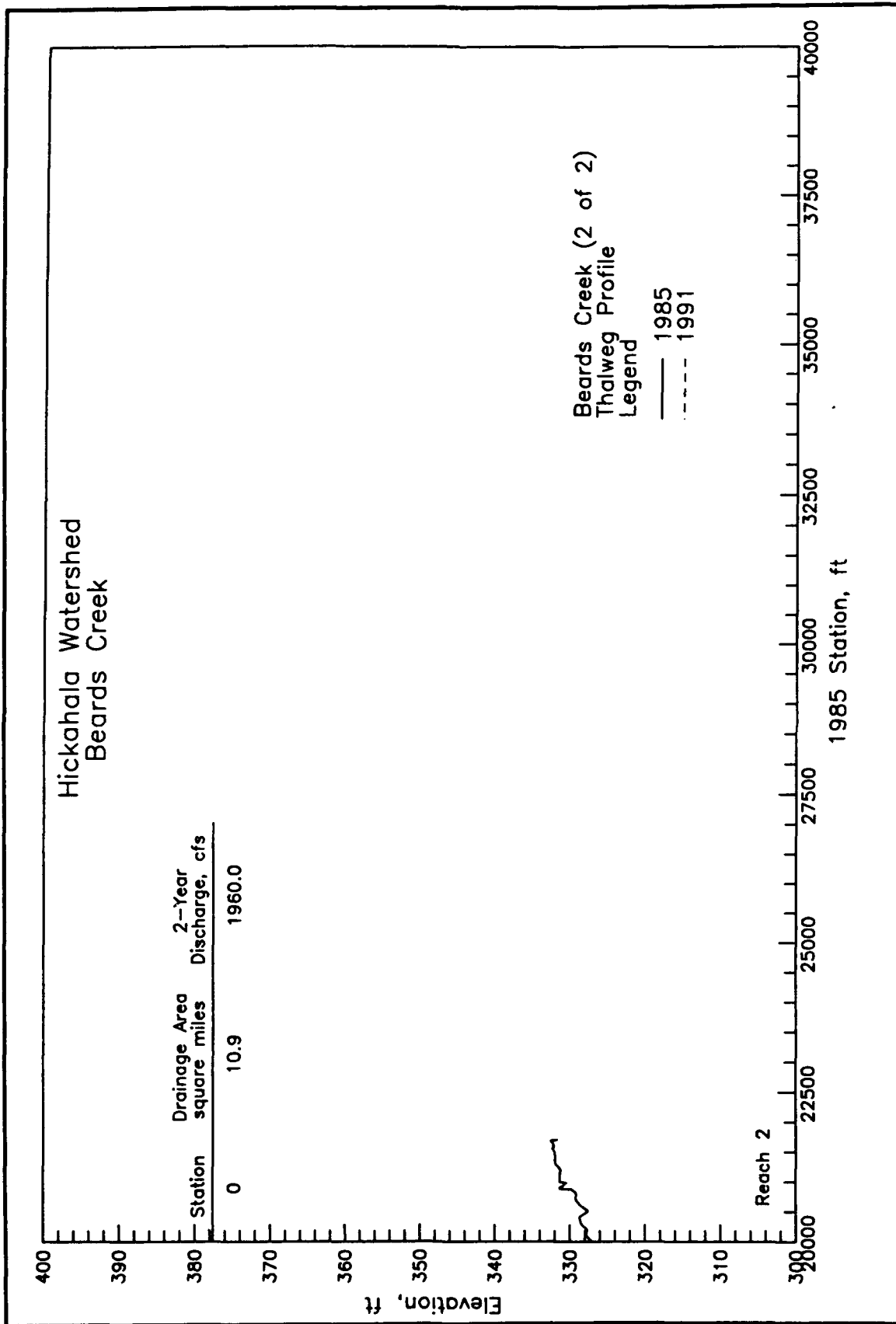


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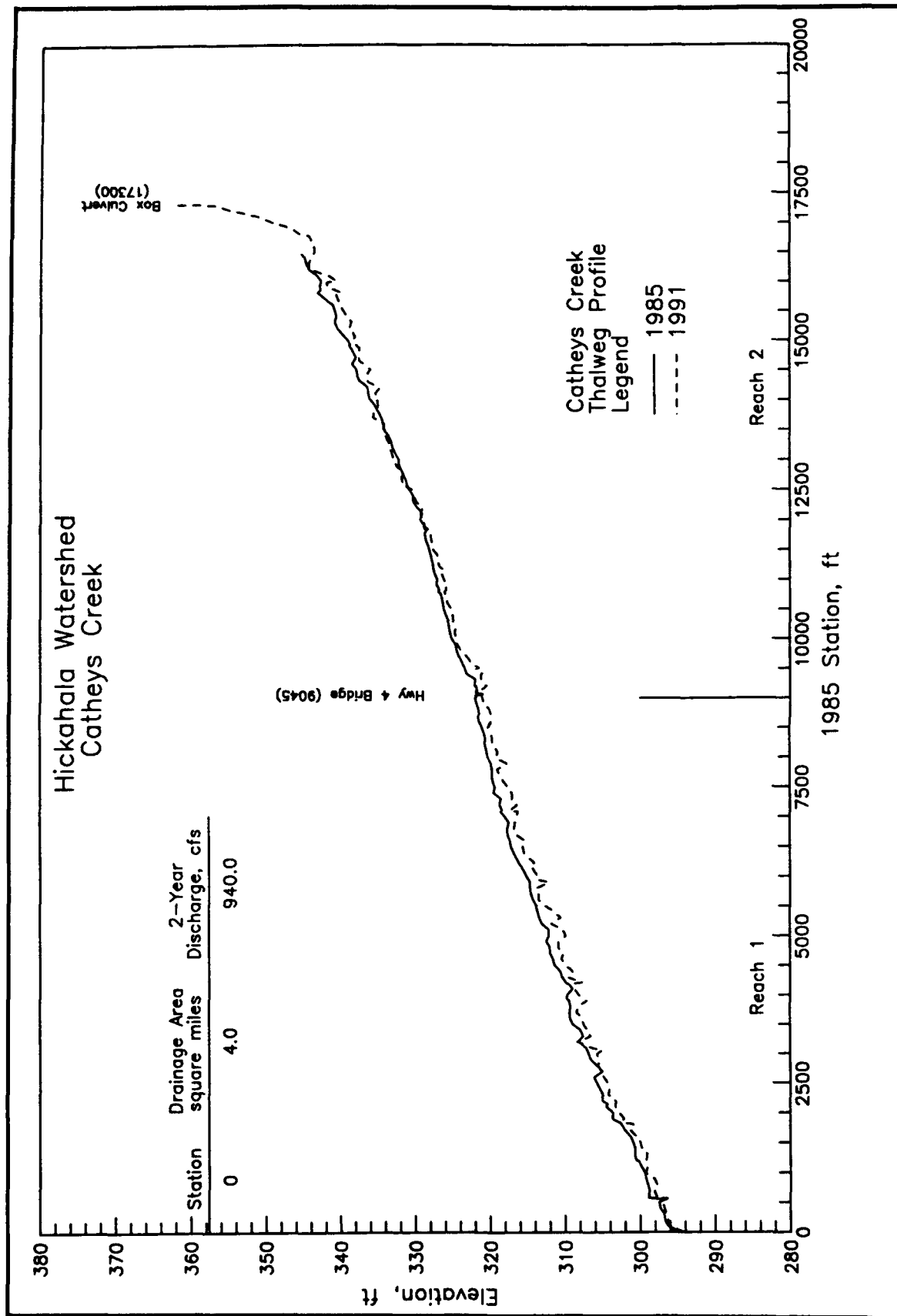


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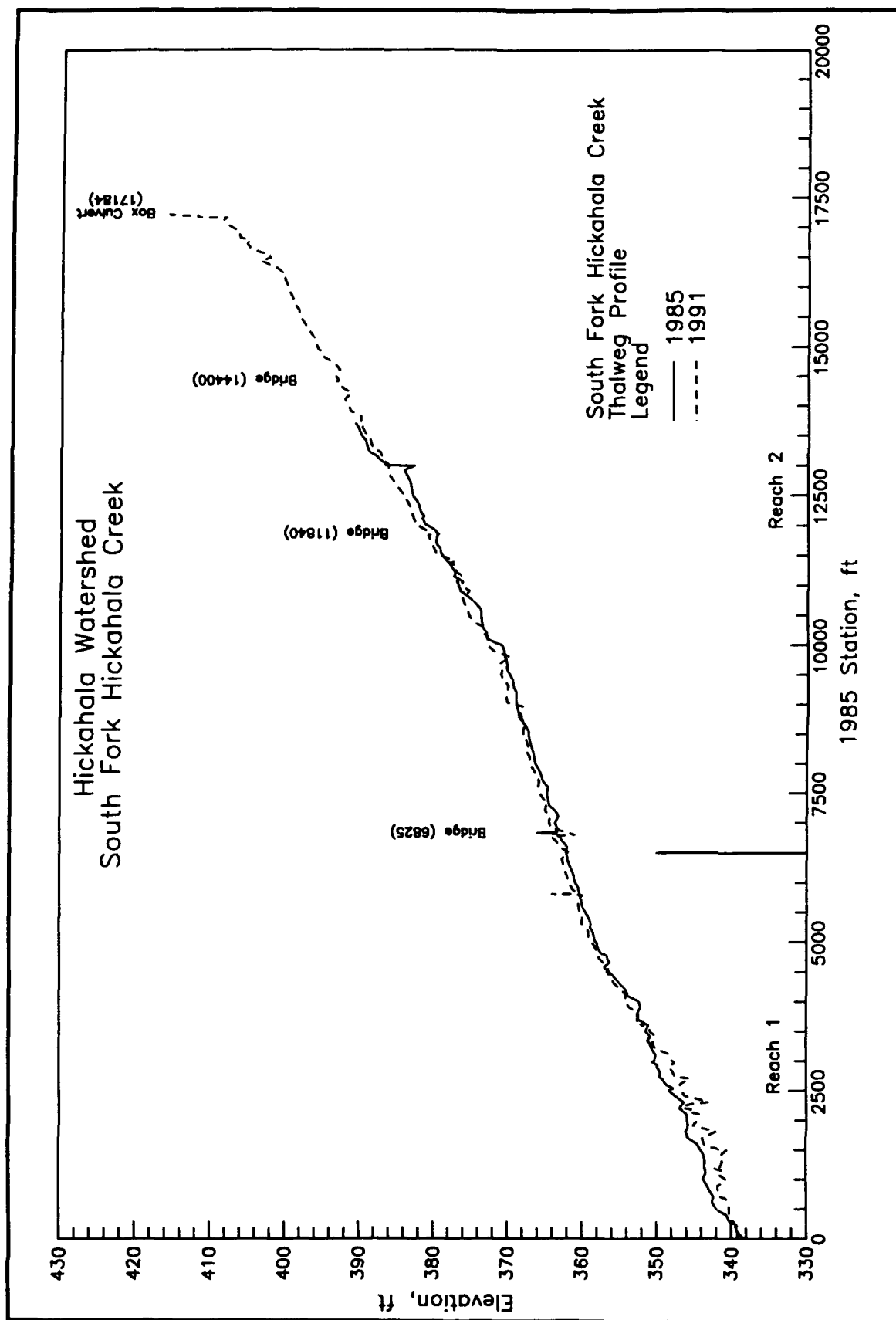
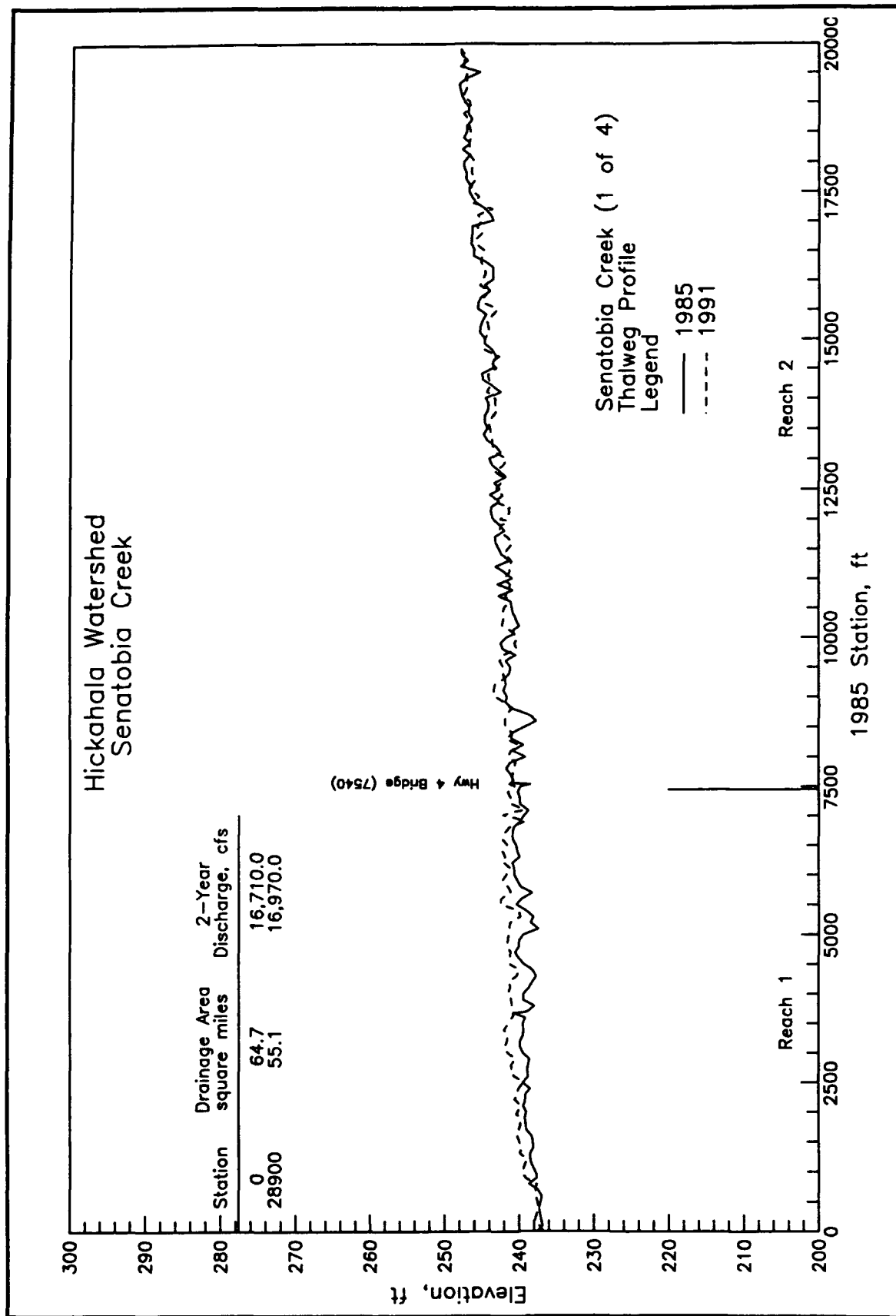


PLATE A13

PLATE A14



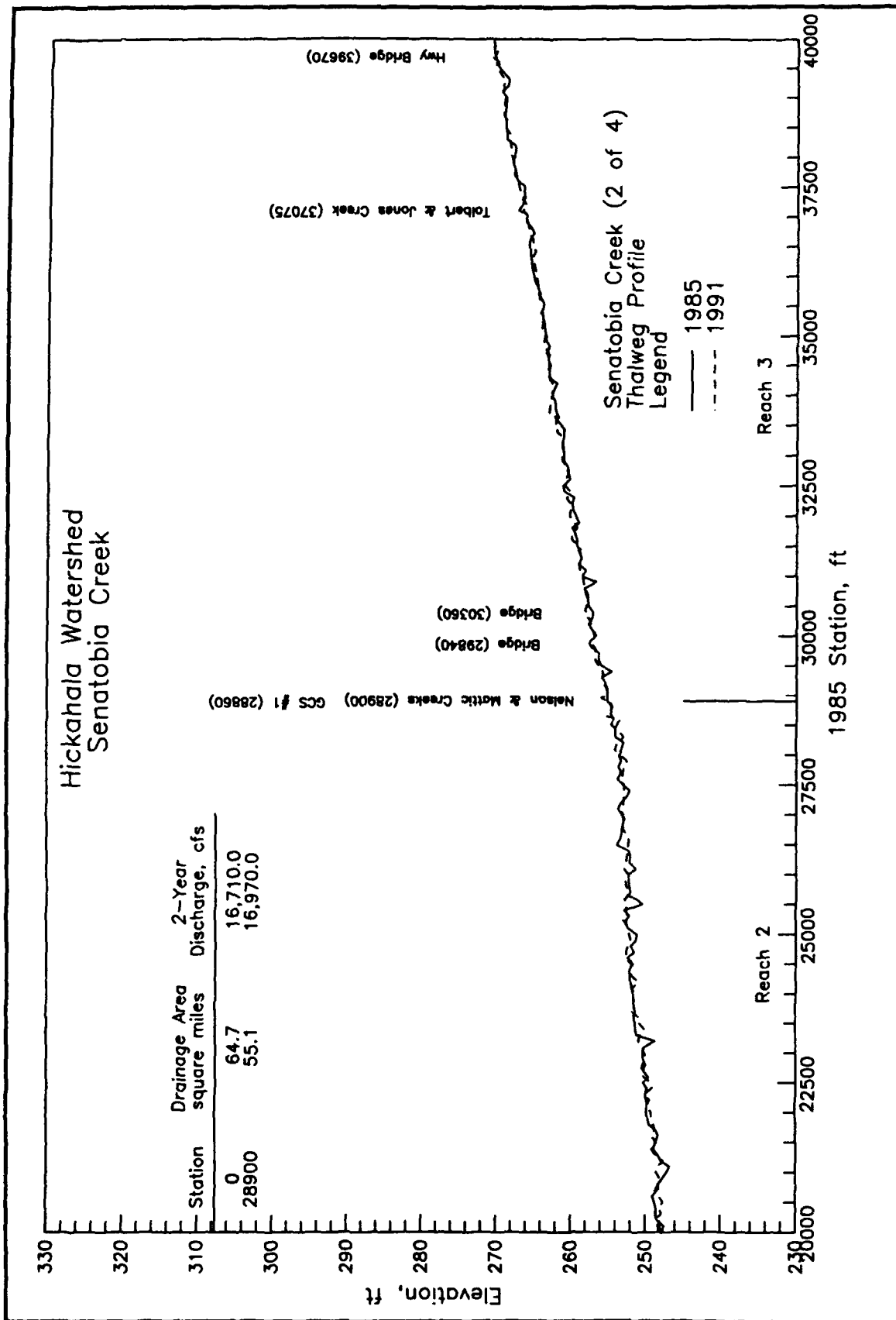
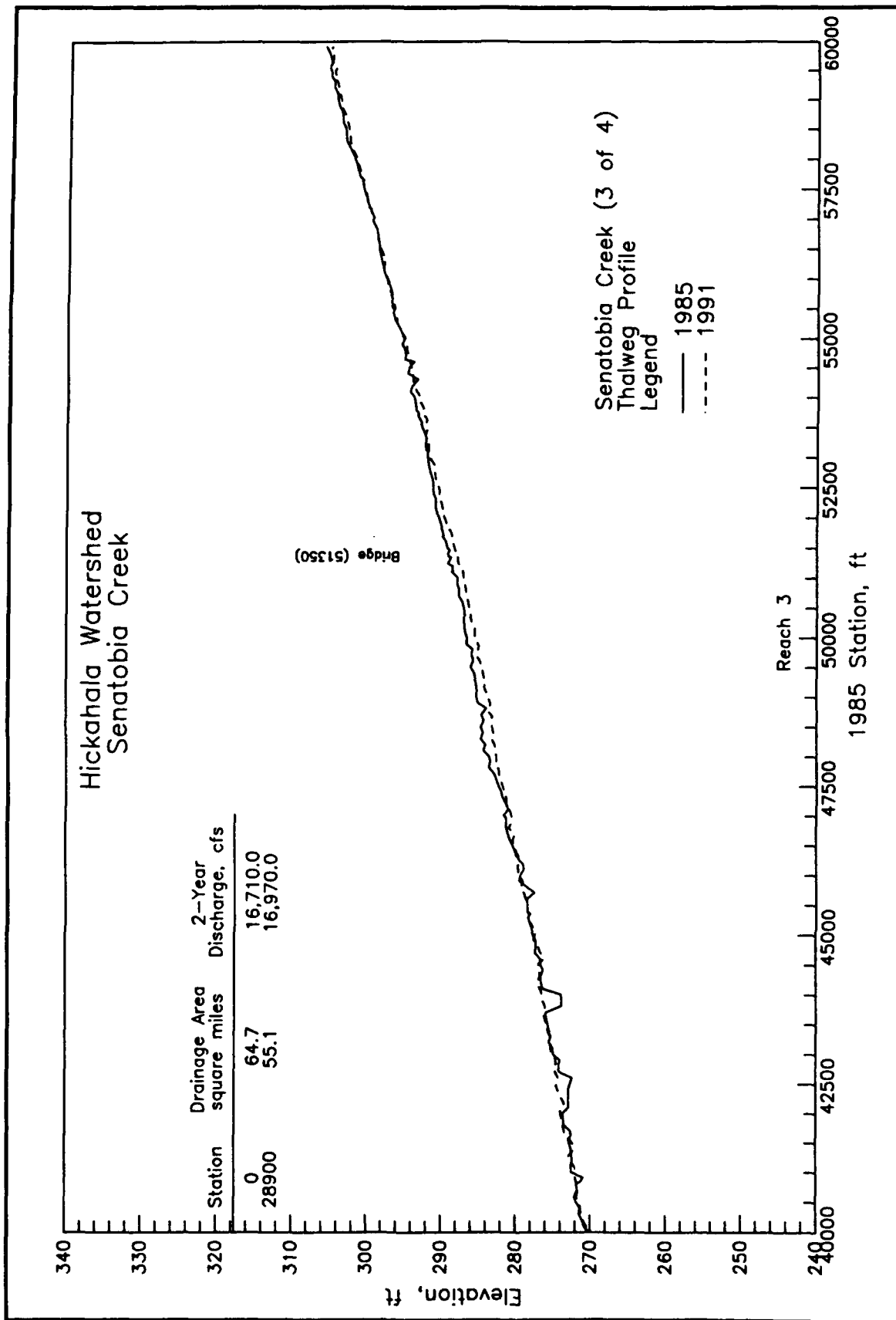


PLATE A15

PLATE A16



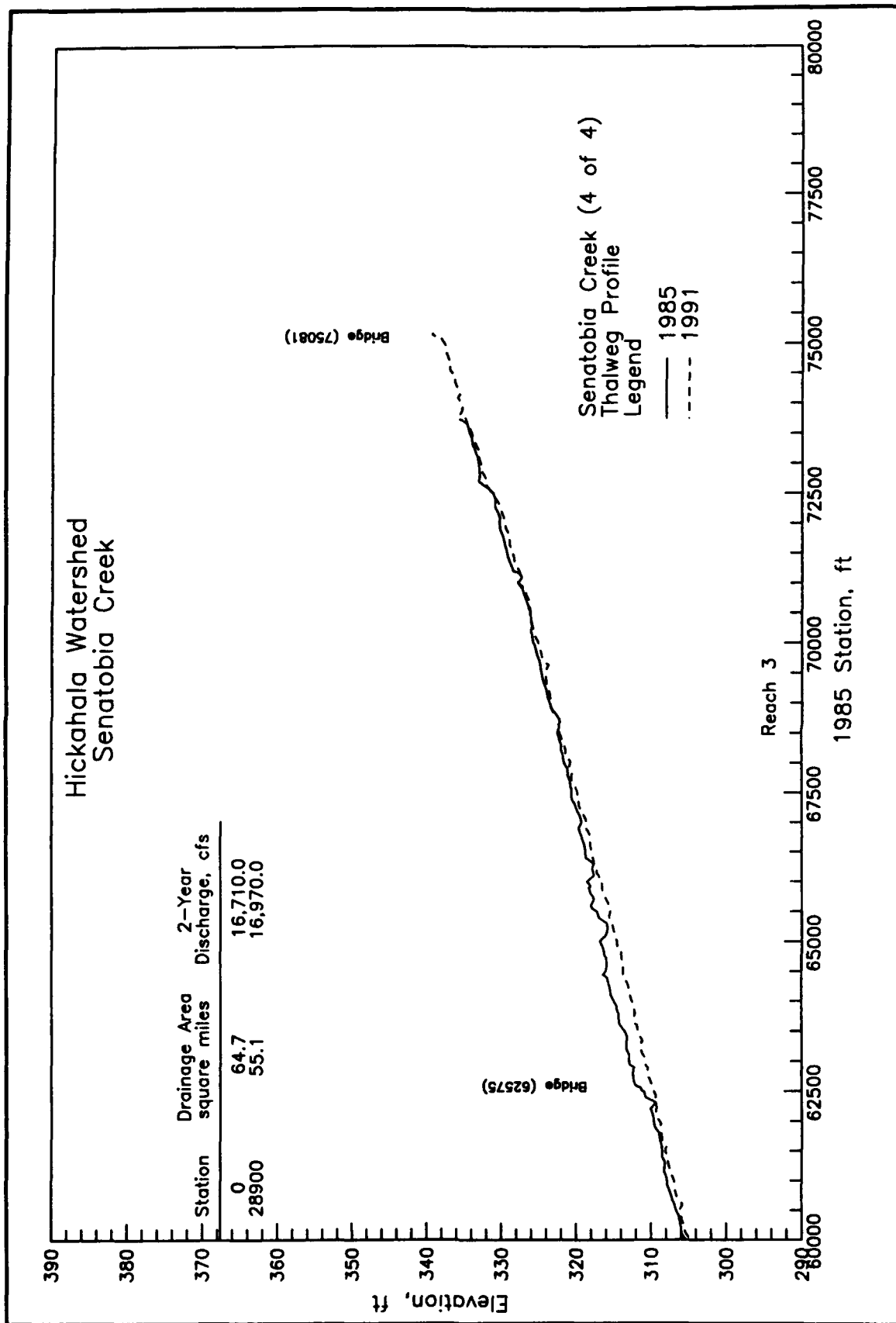
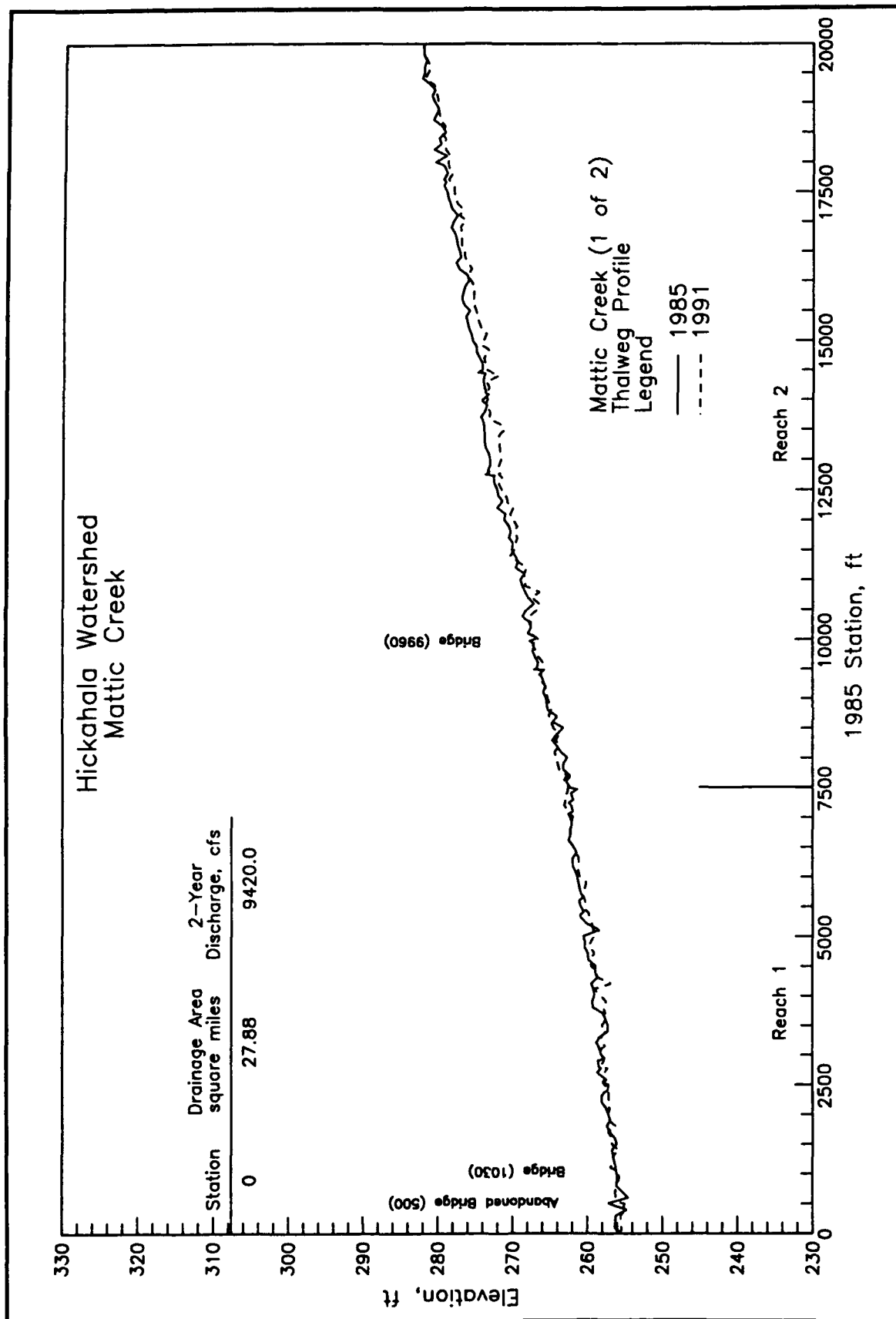


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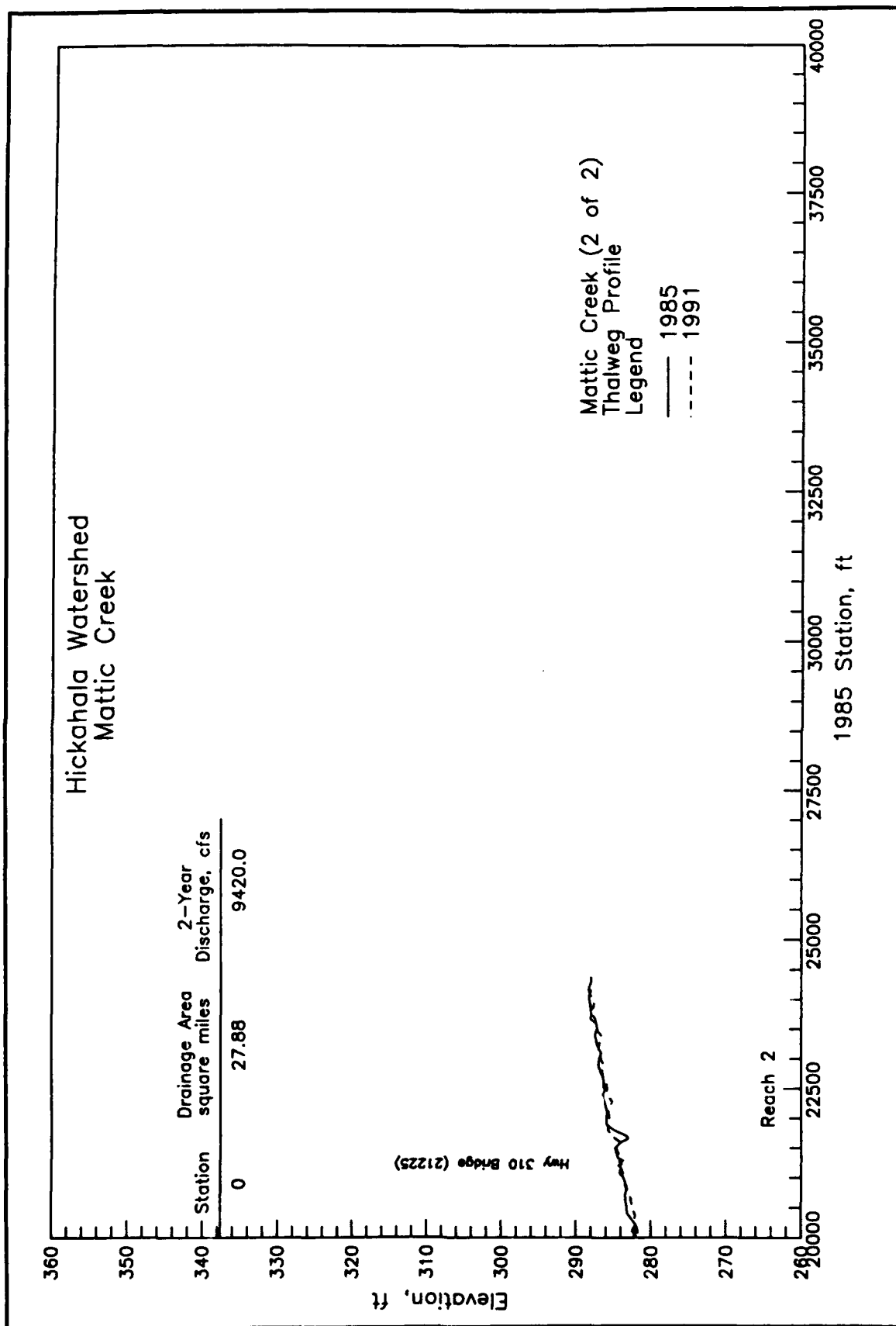
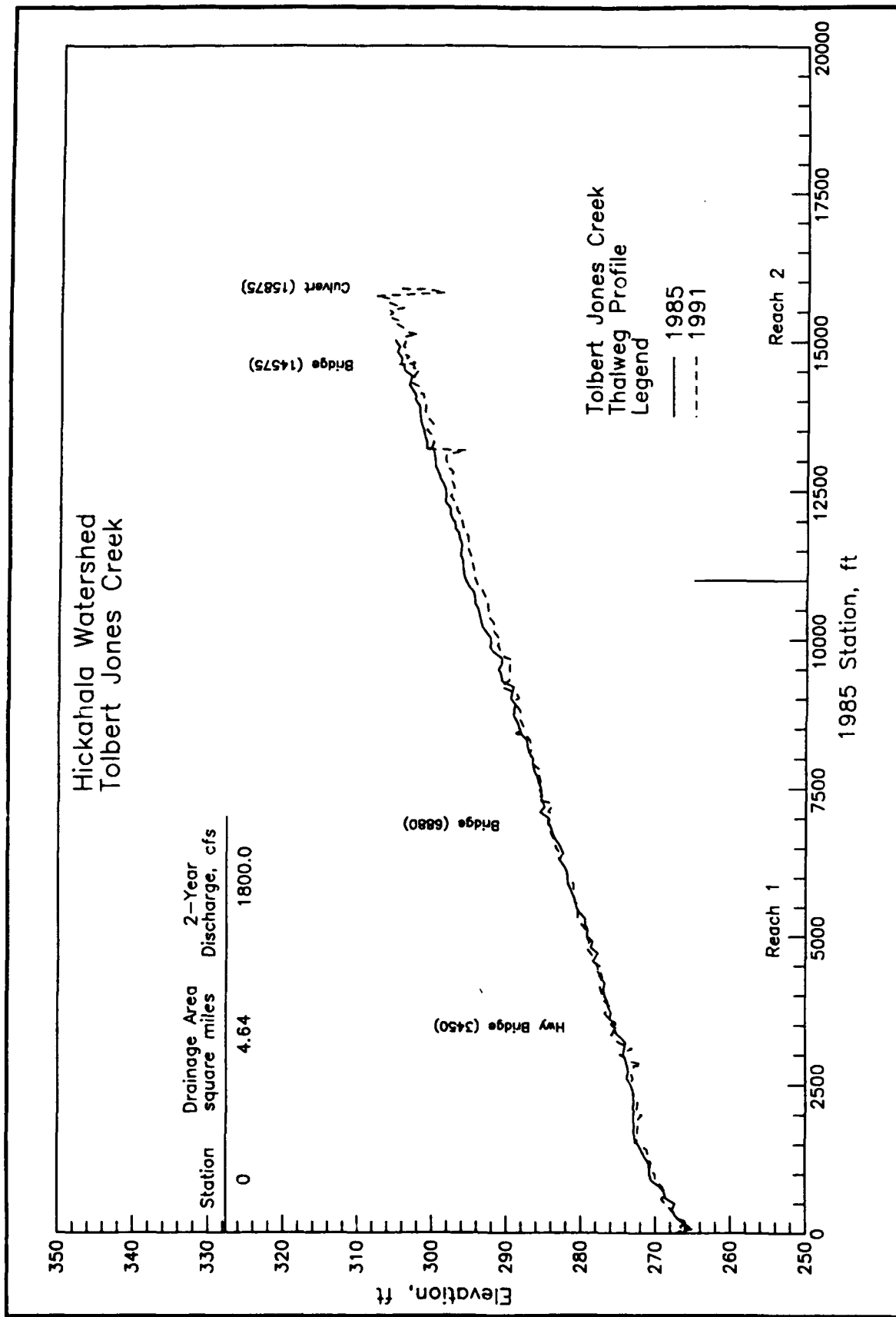


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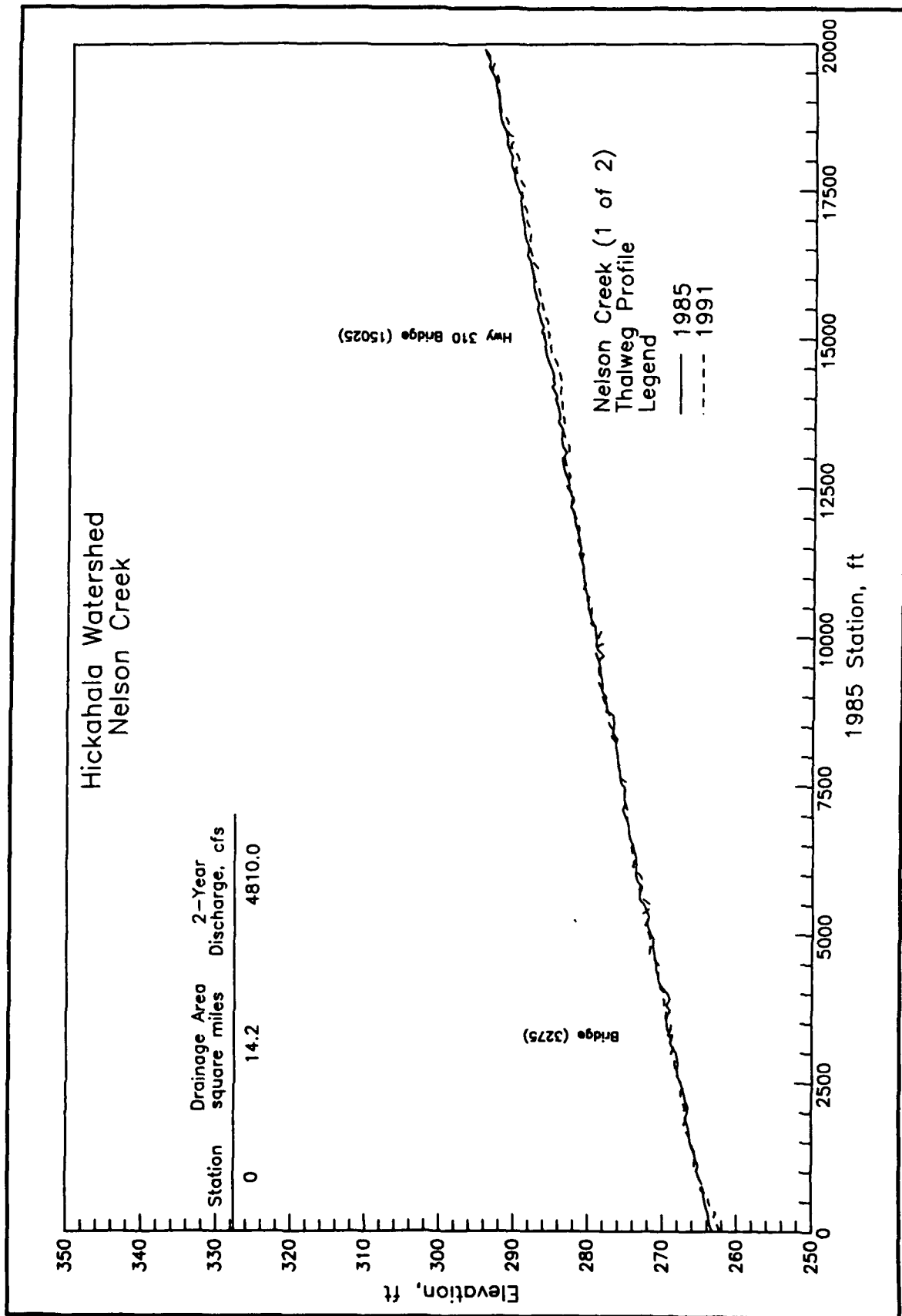


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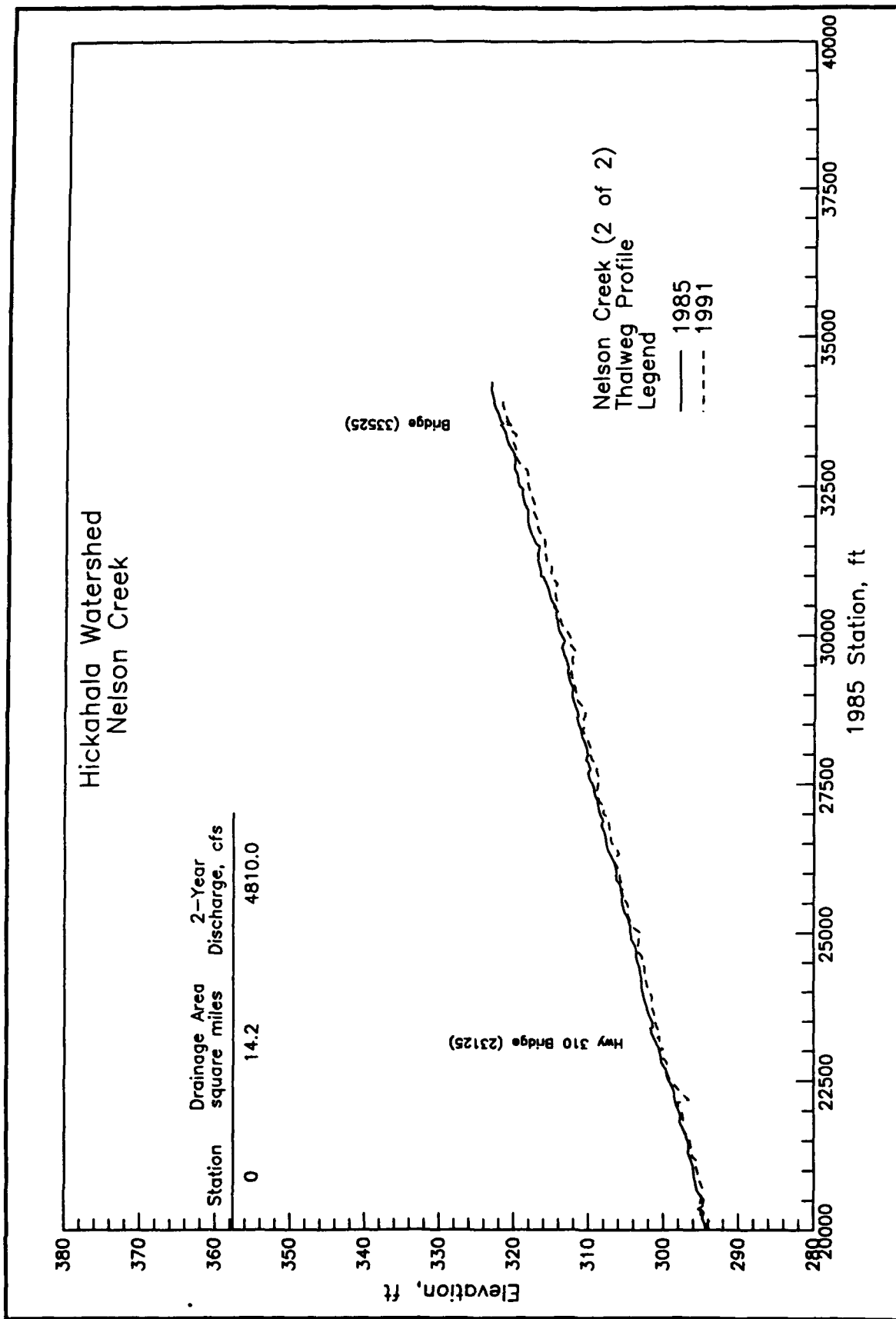
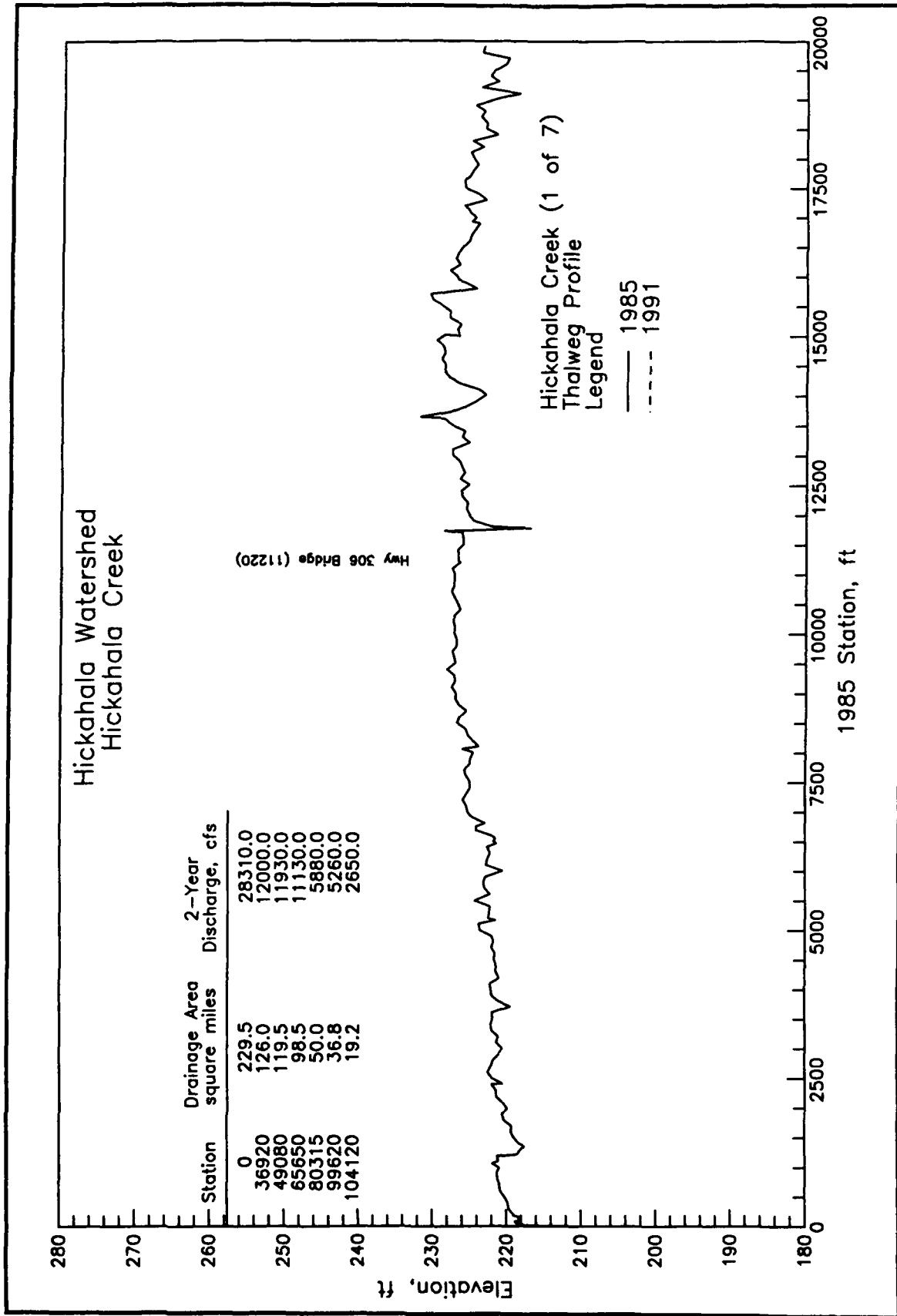


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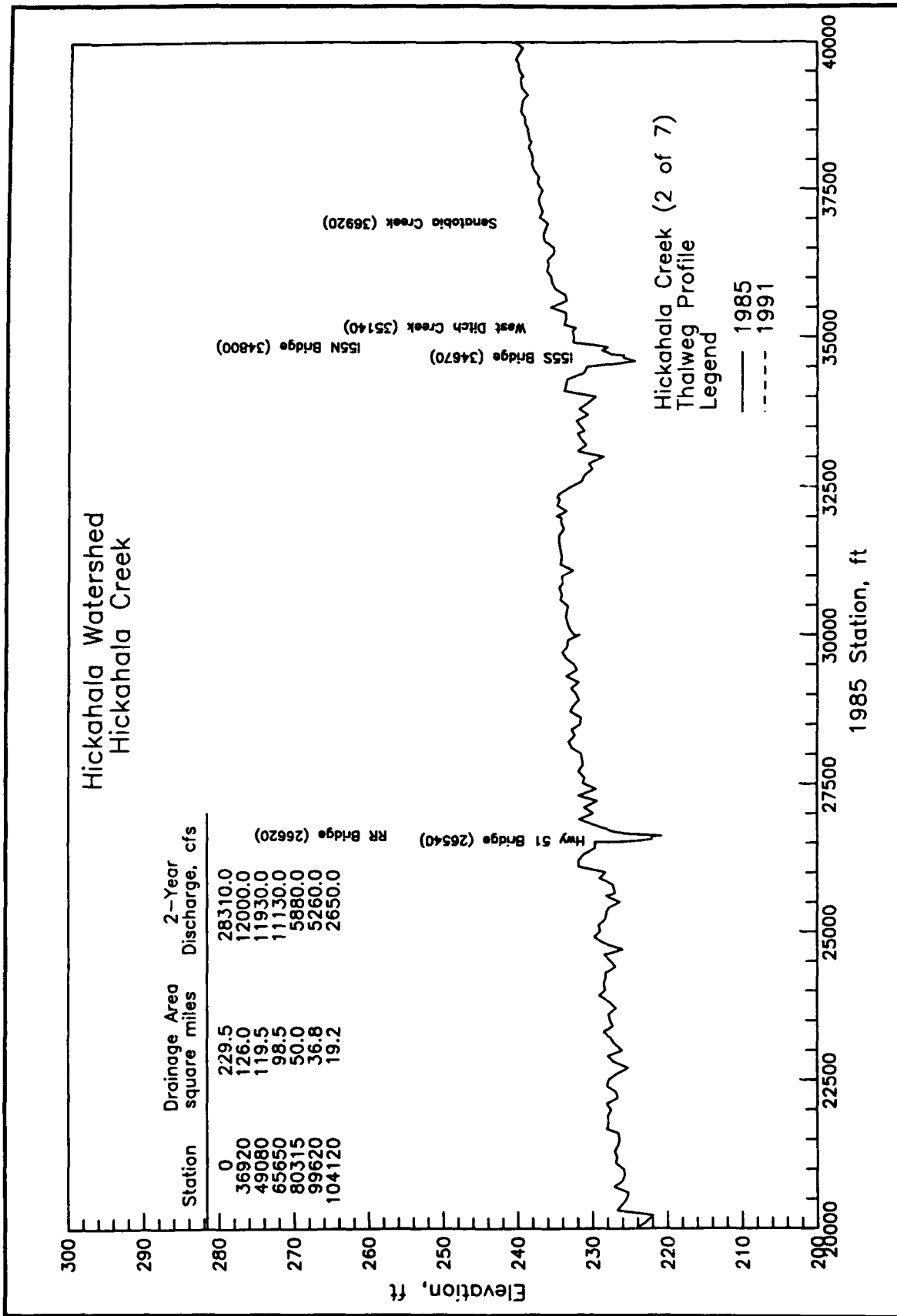
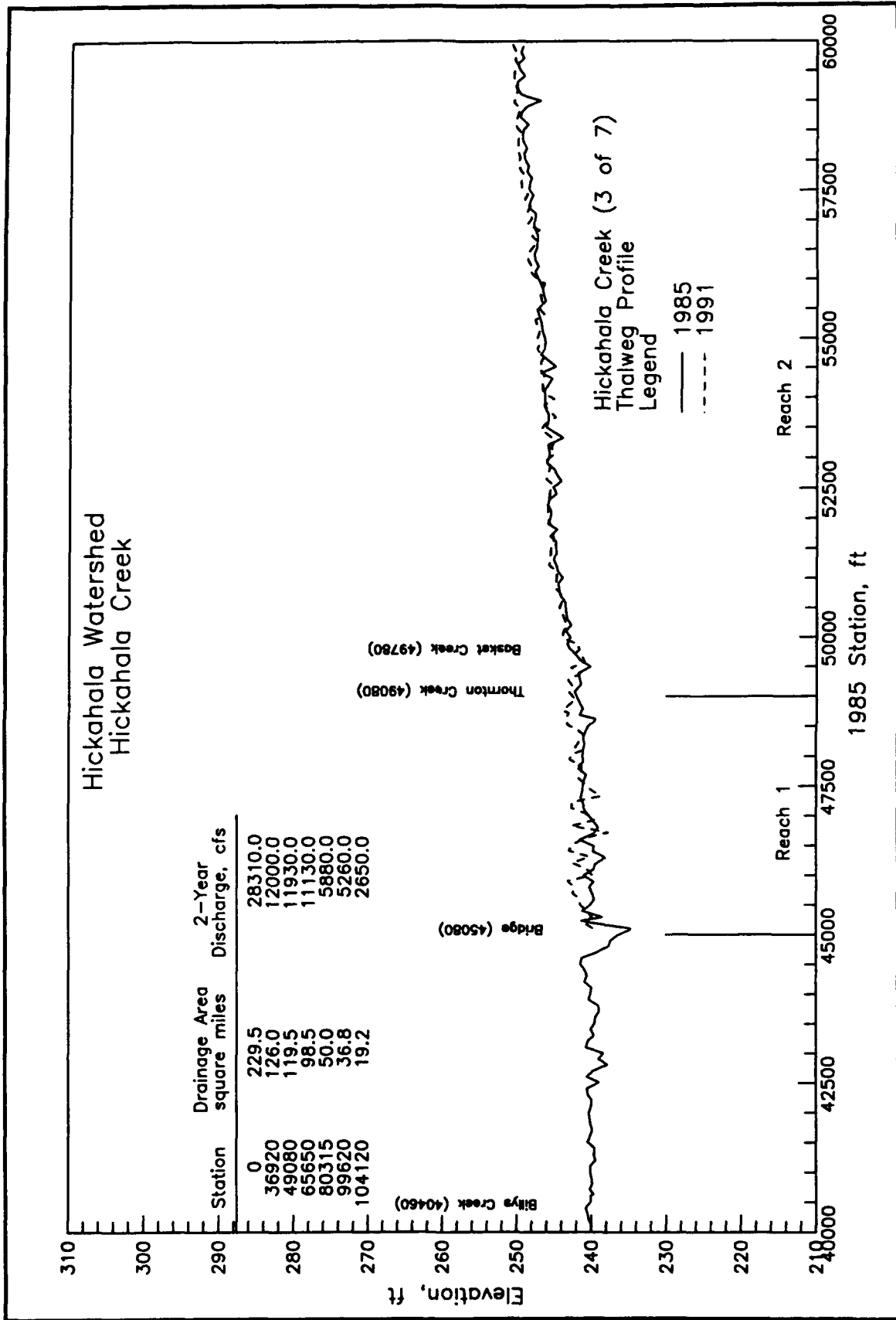
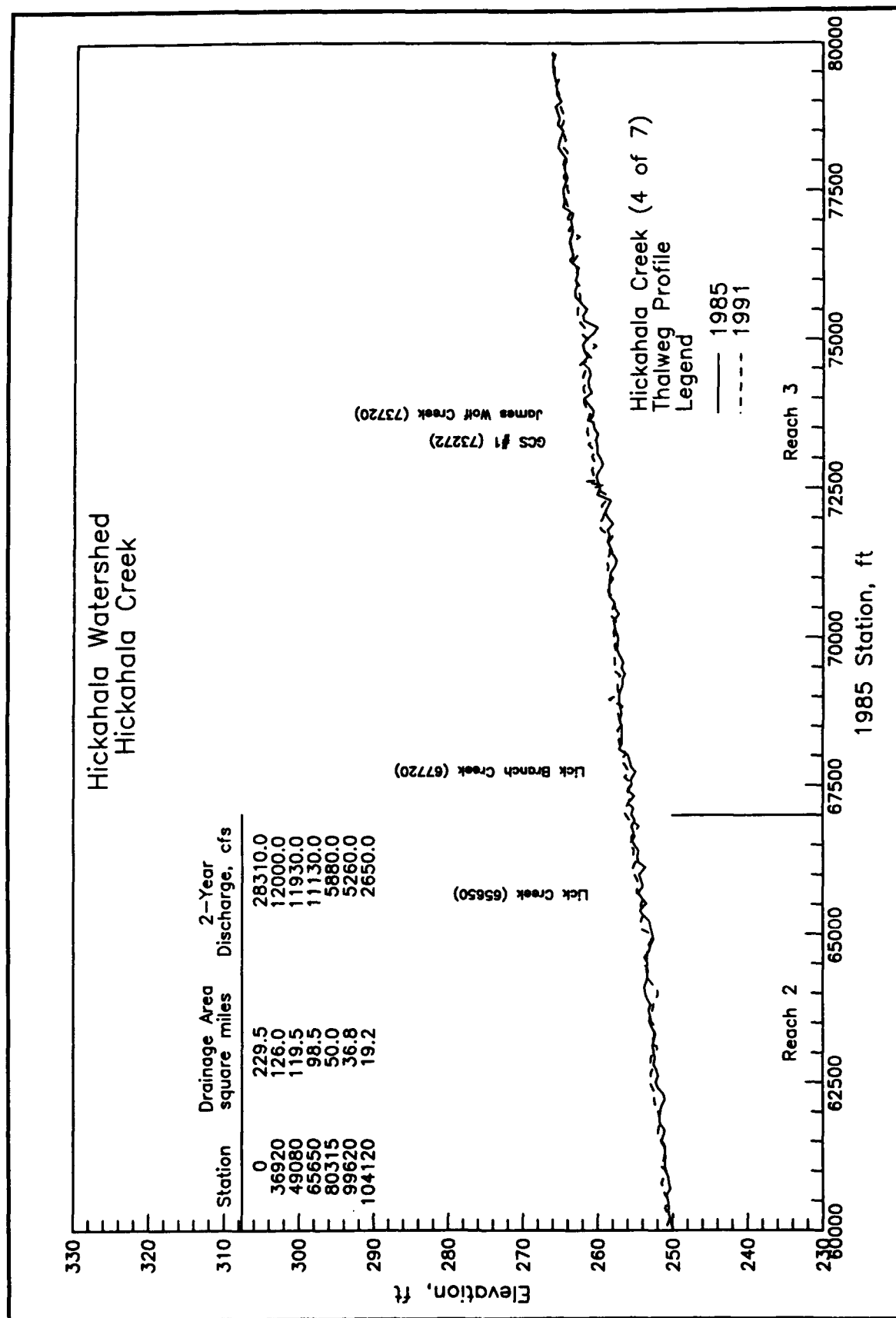


PLATE A24





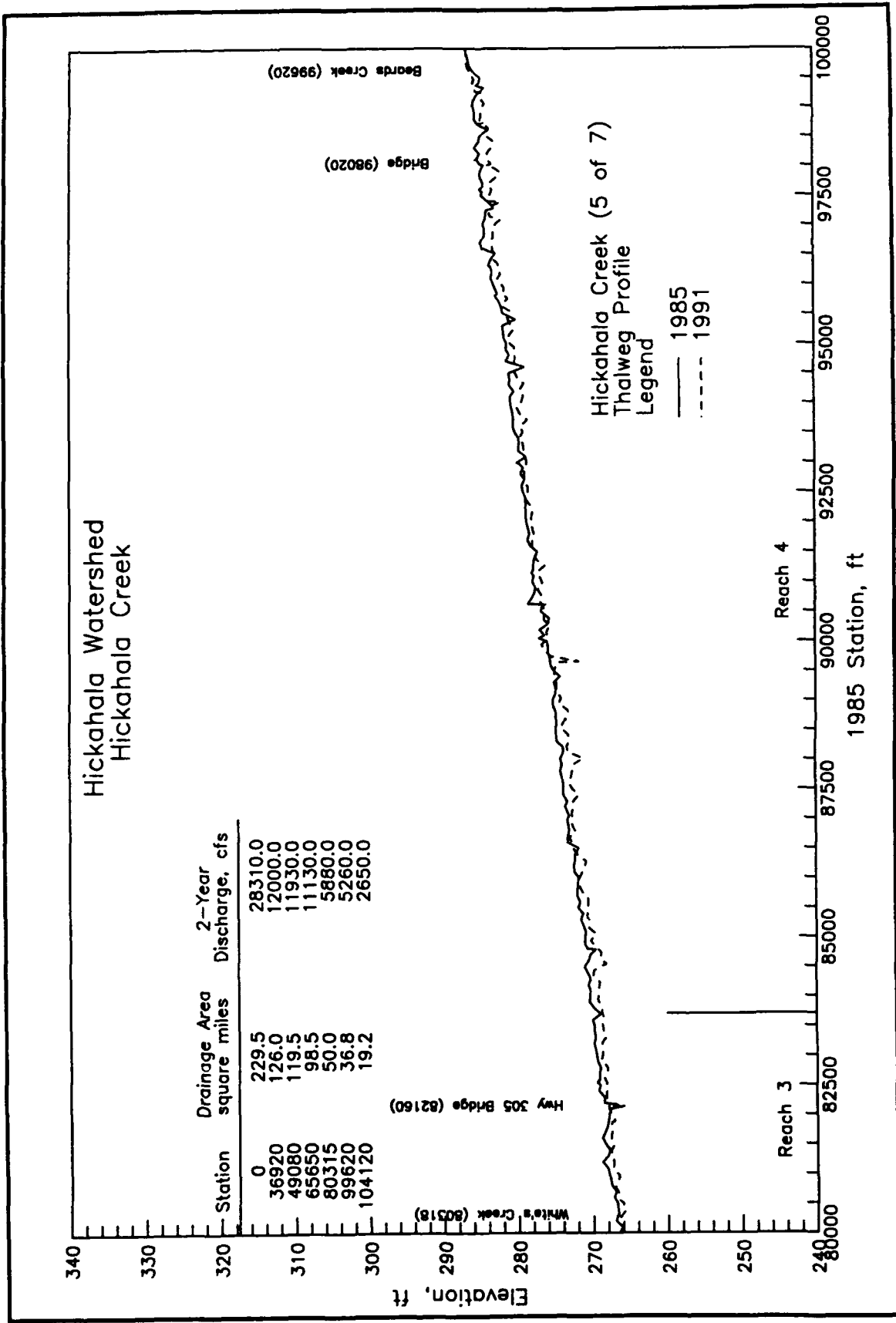
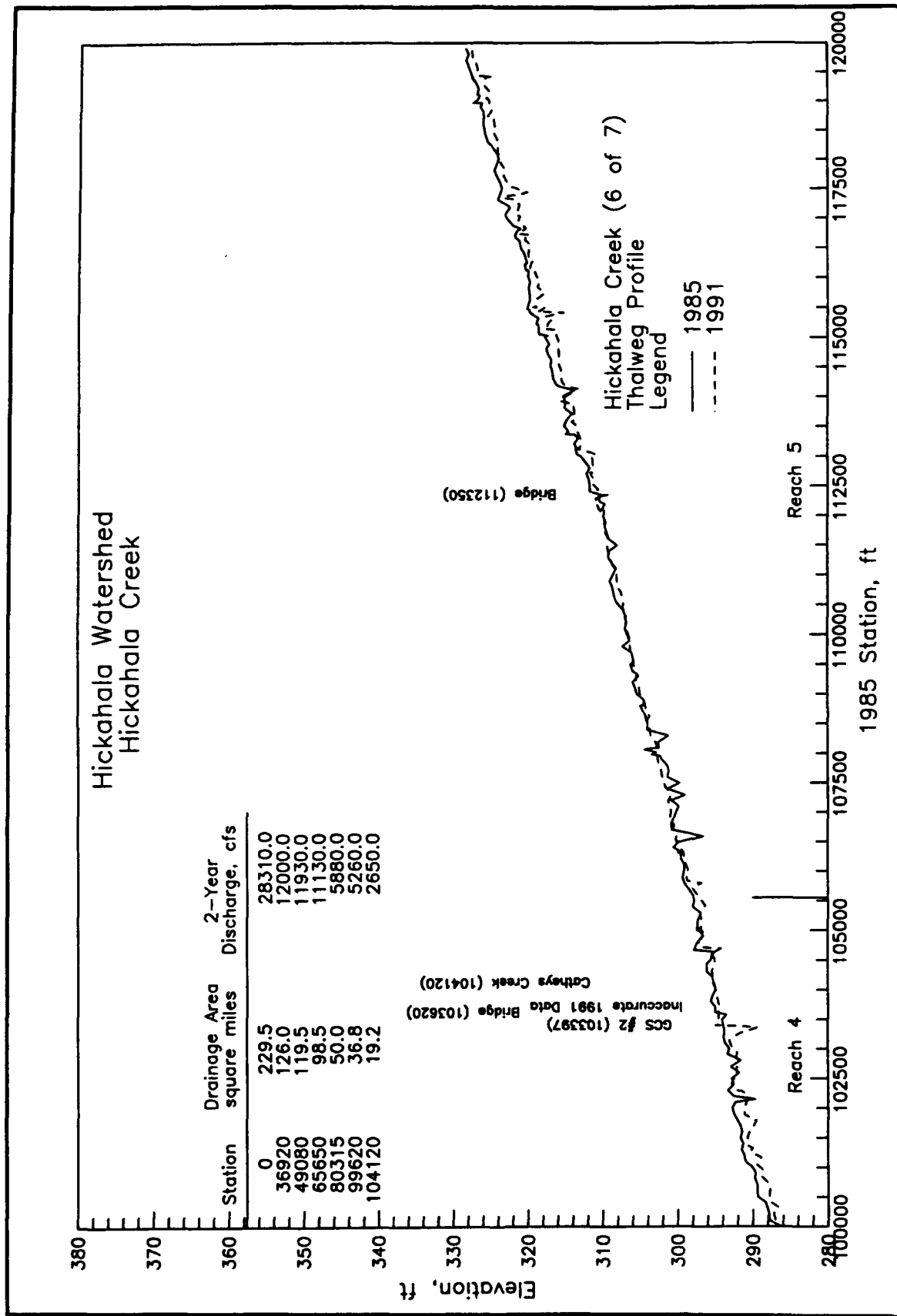


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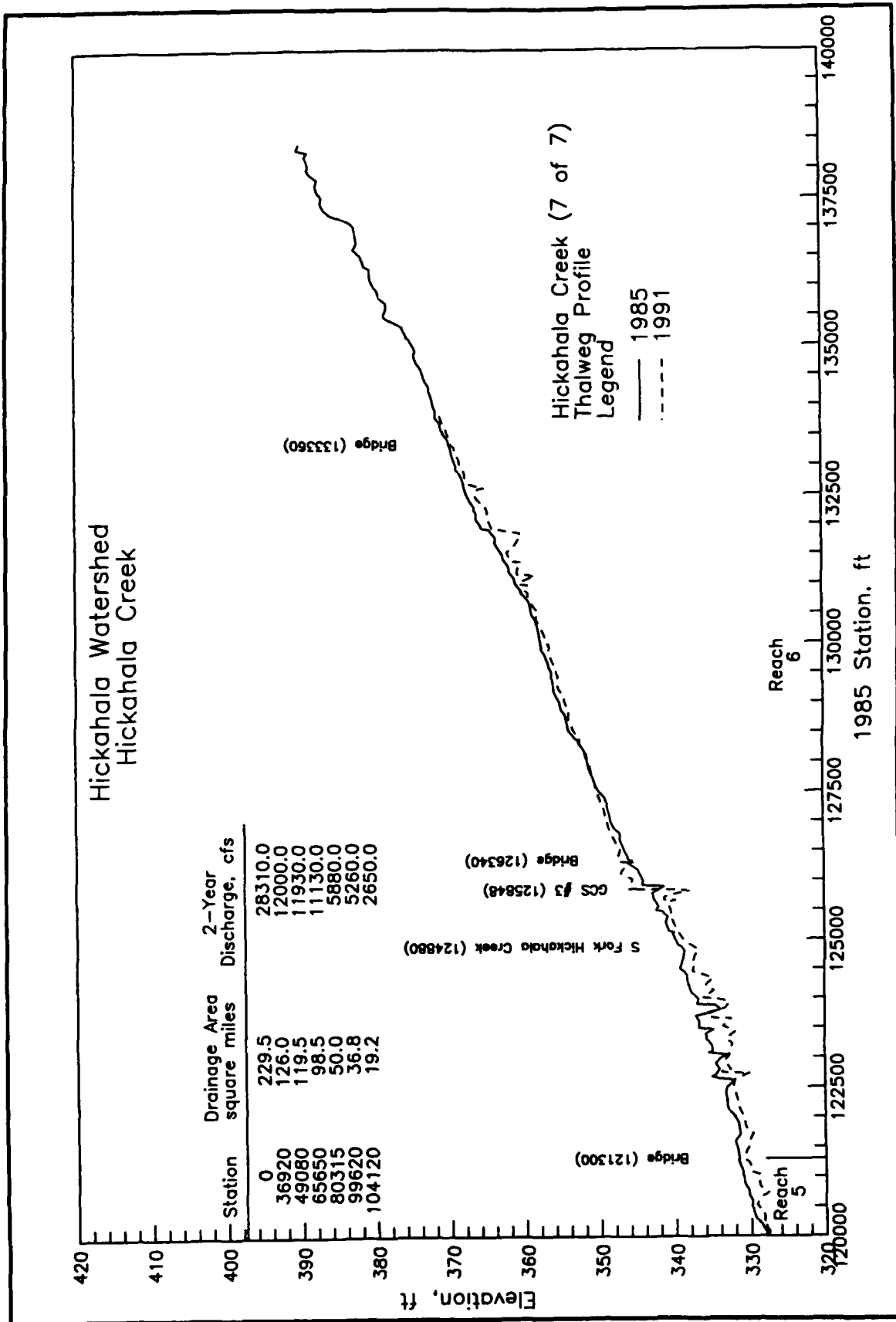
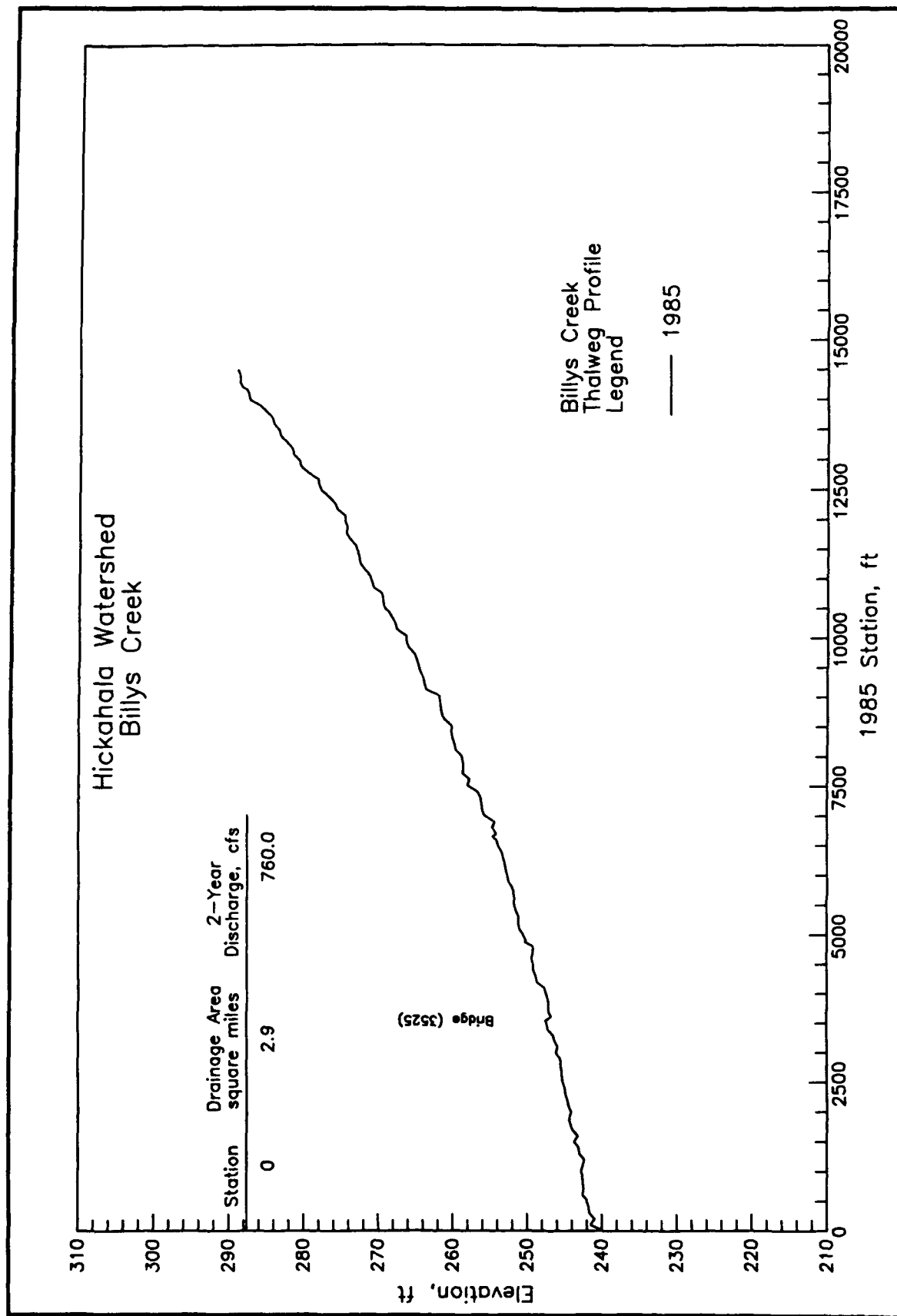


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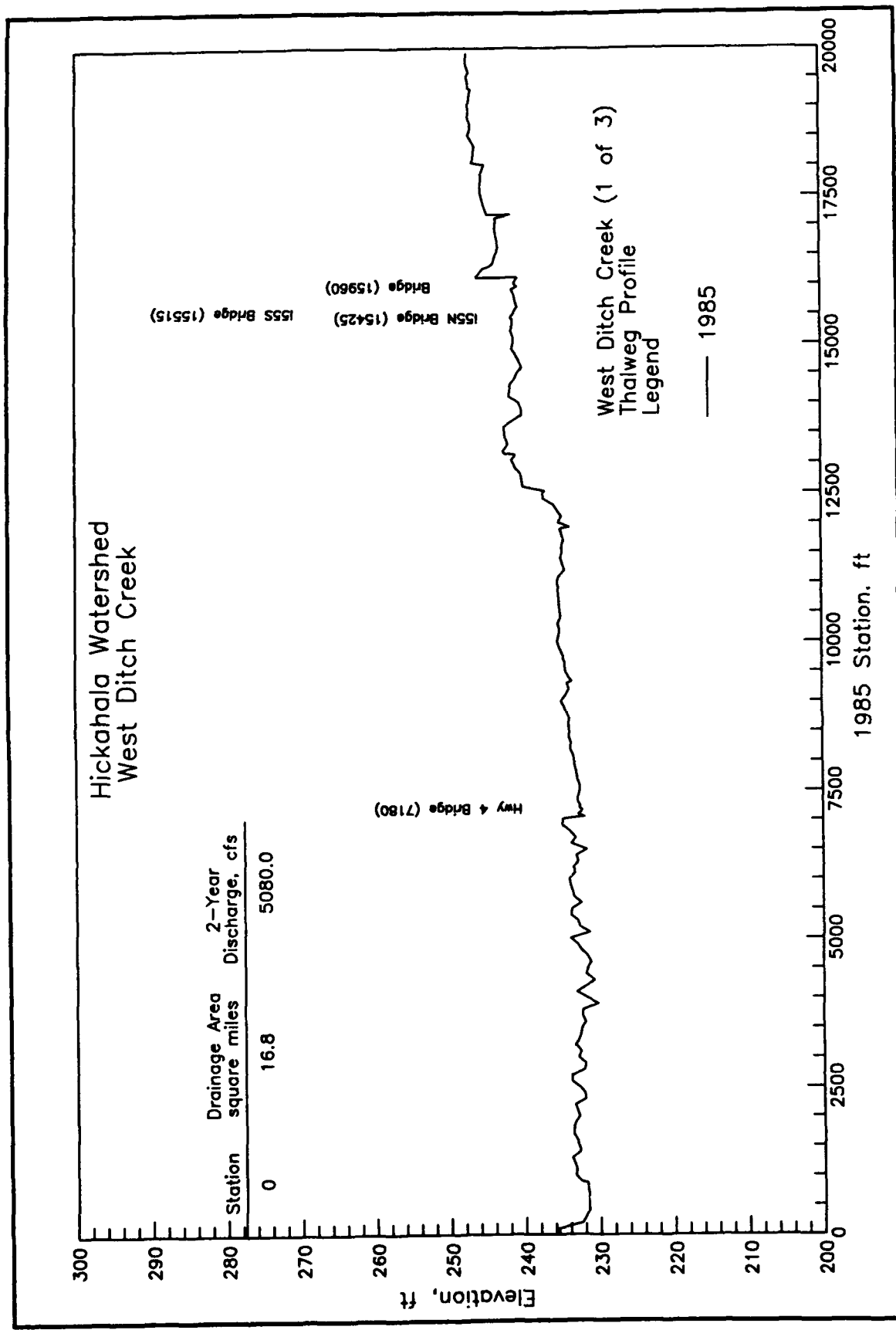
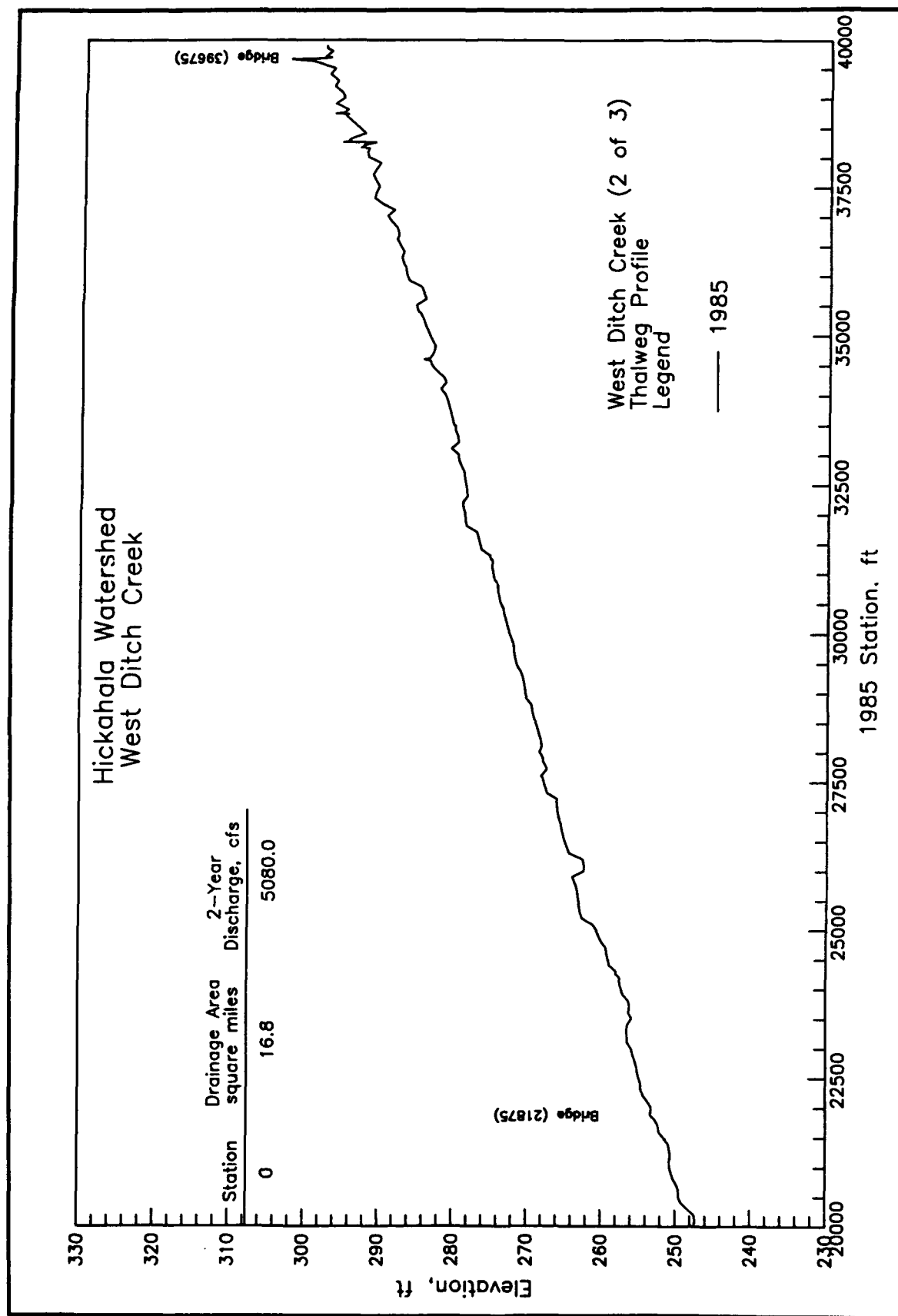


PLATE A31

PLATE A32



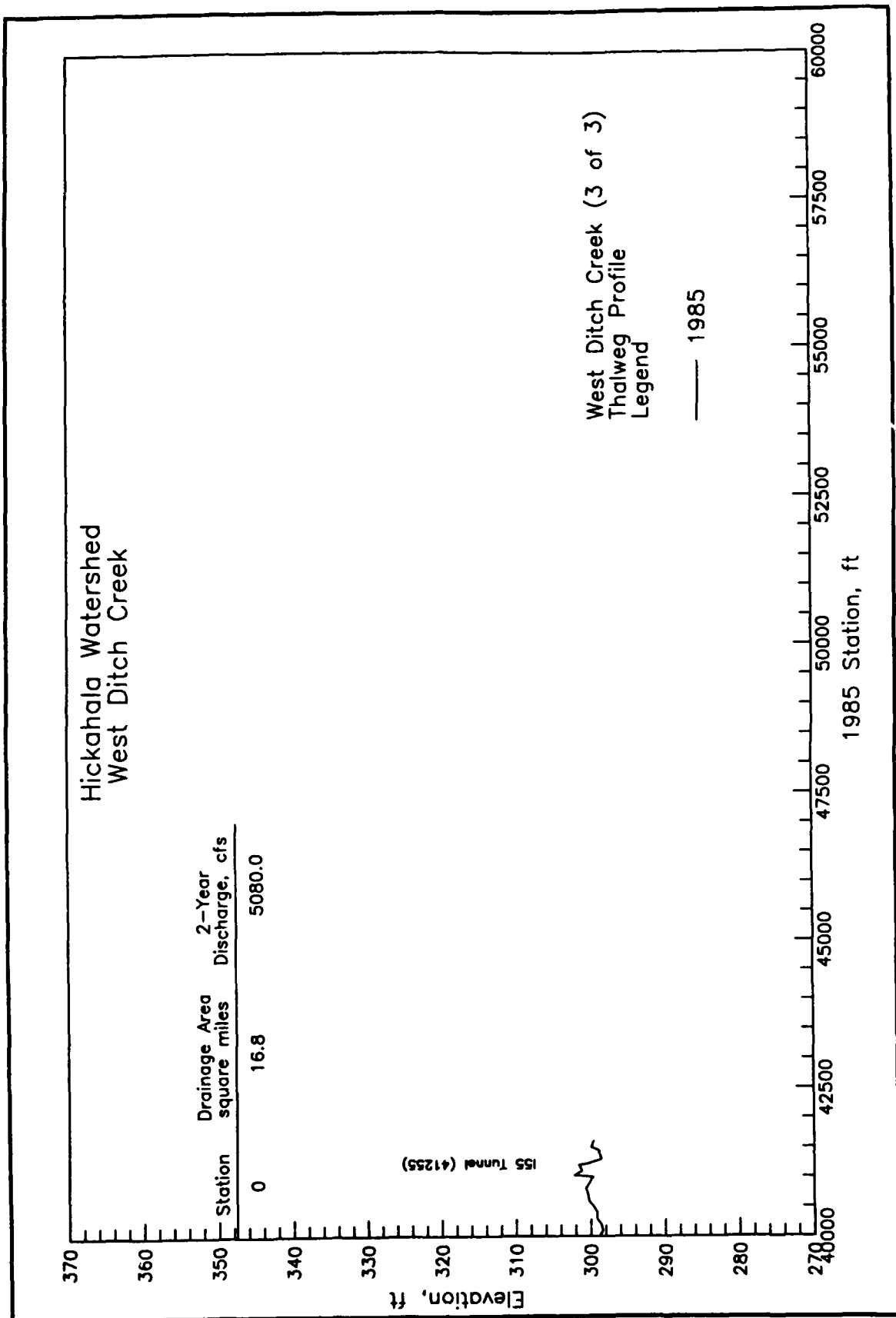
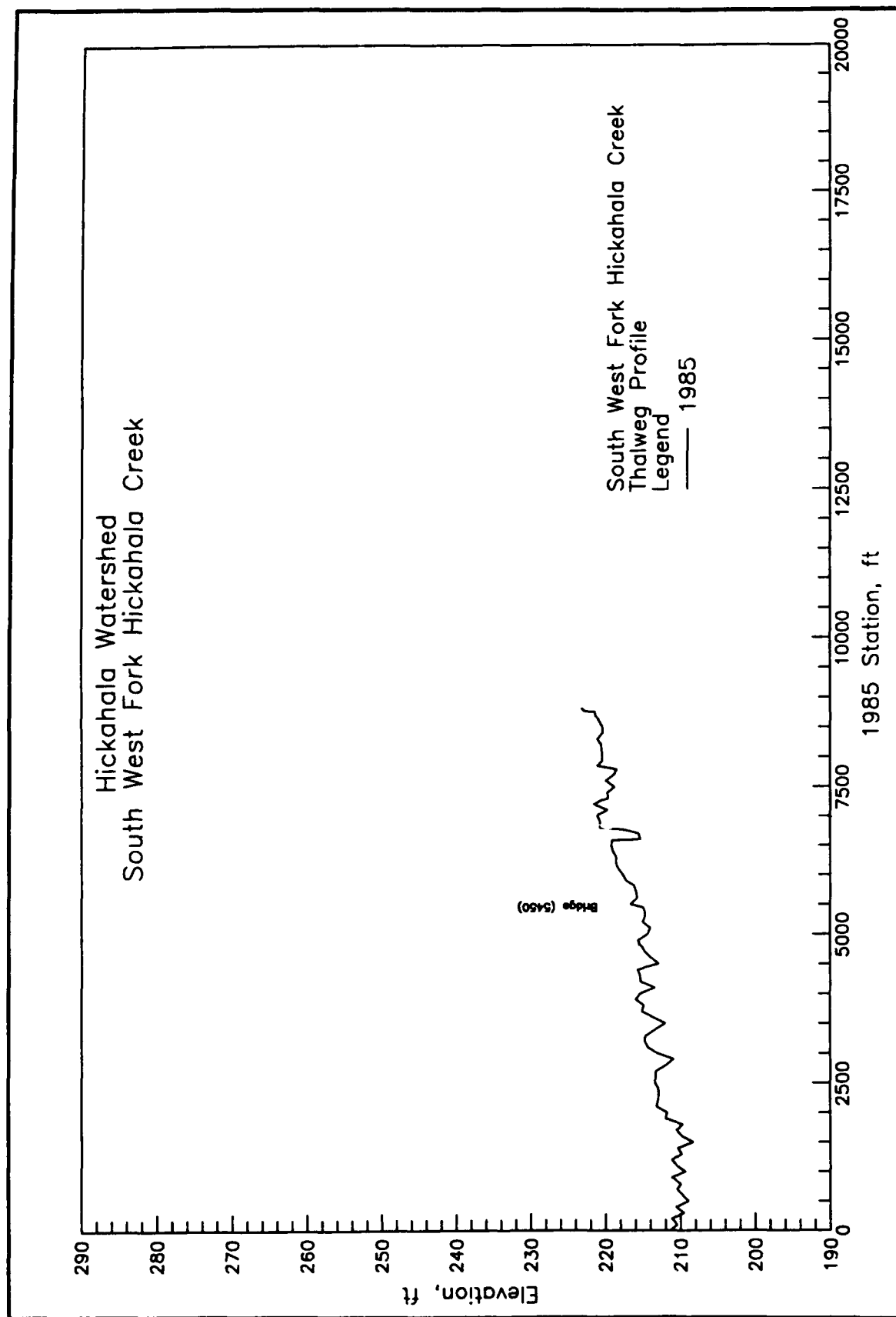
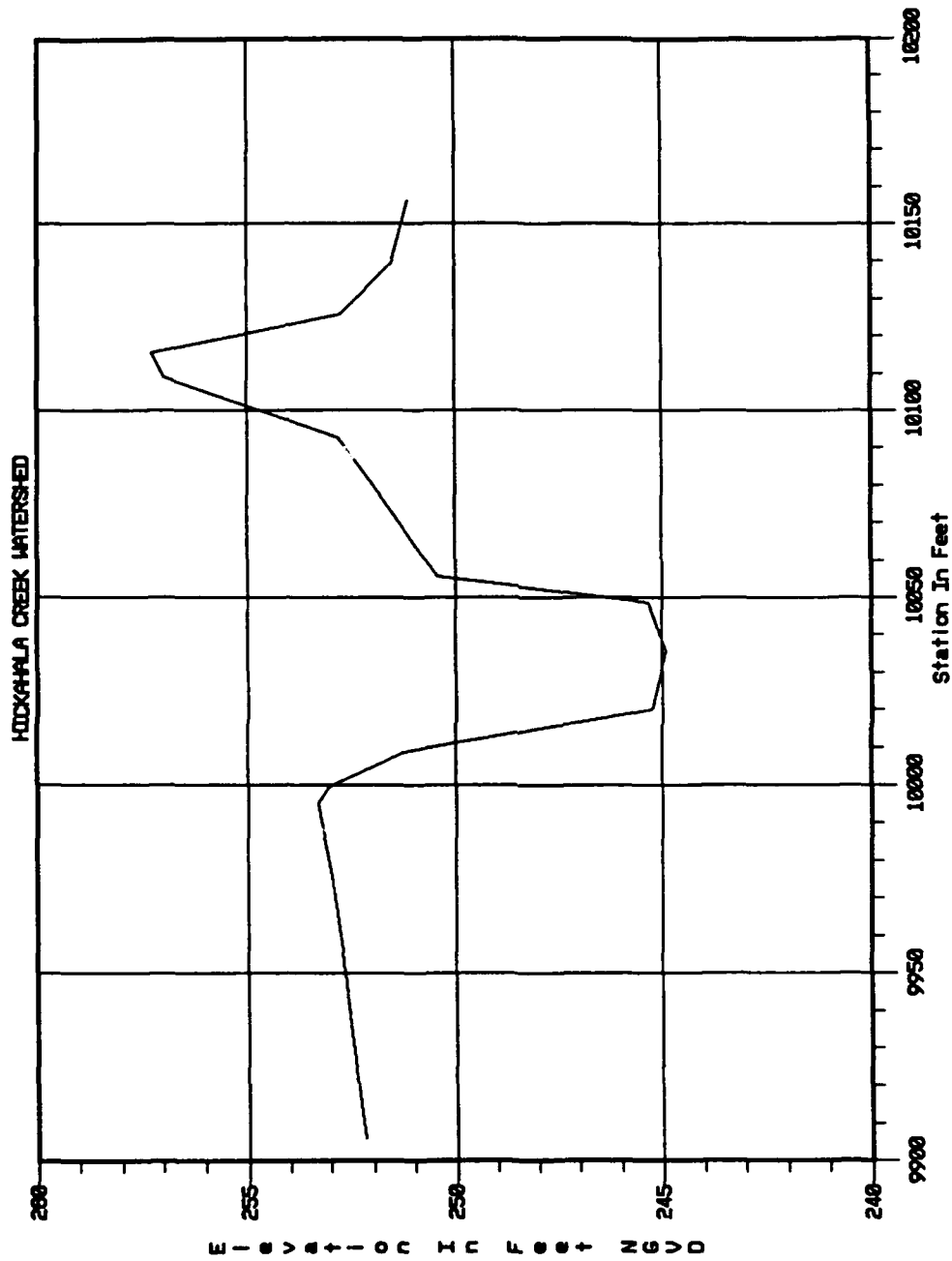


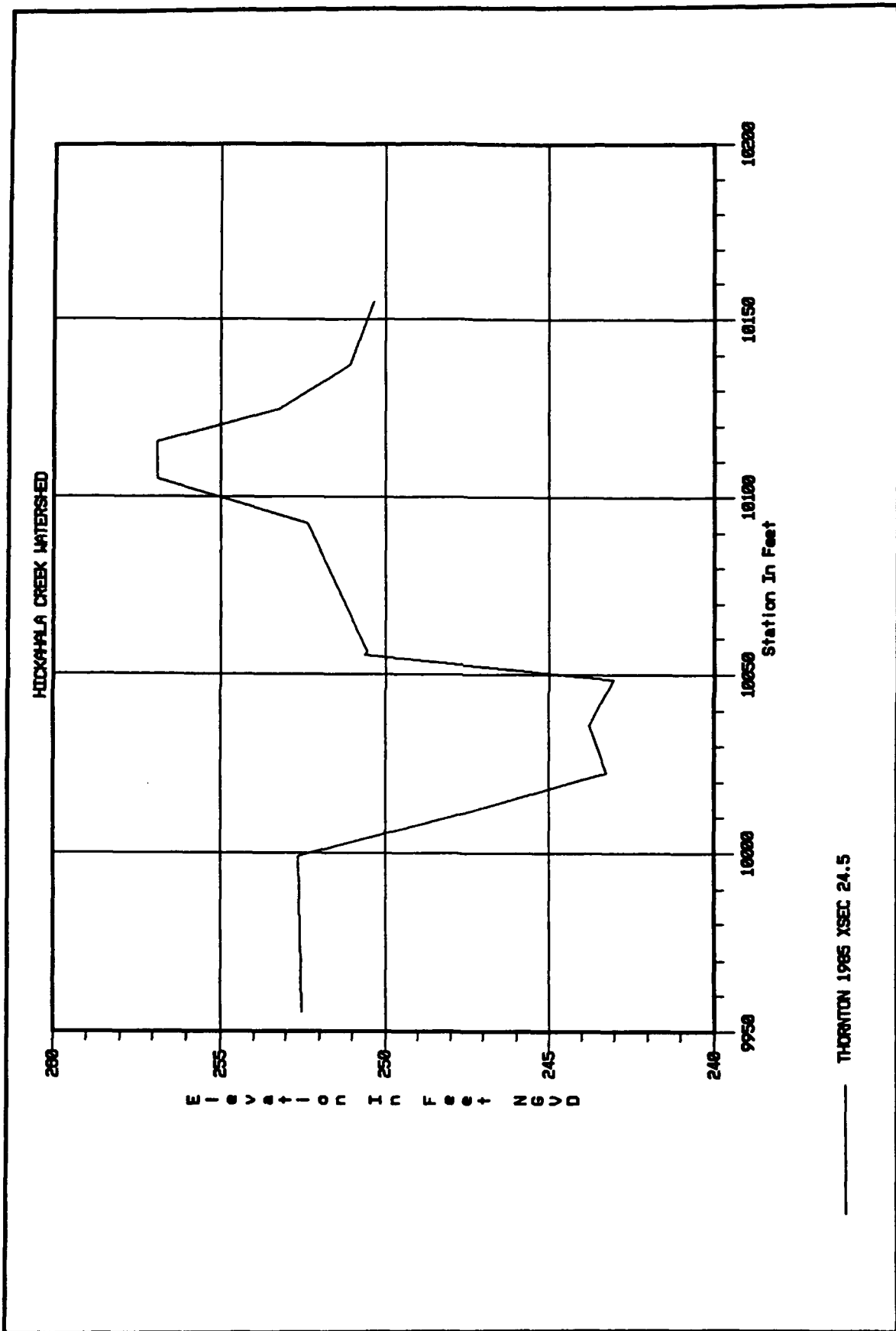
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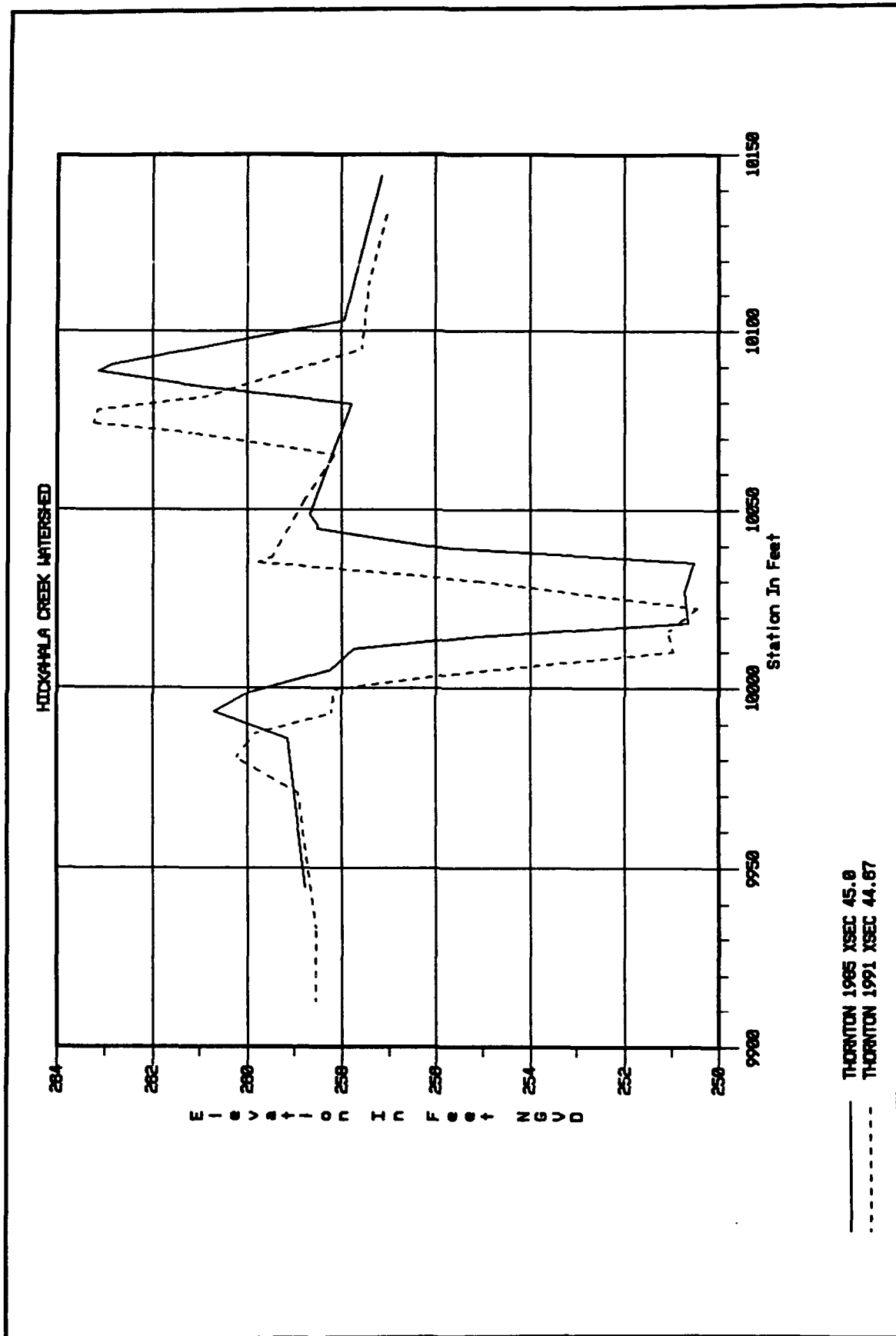
PLATE A34





THORNTON 1991 XSEC 7.64





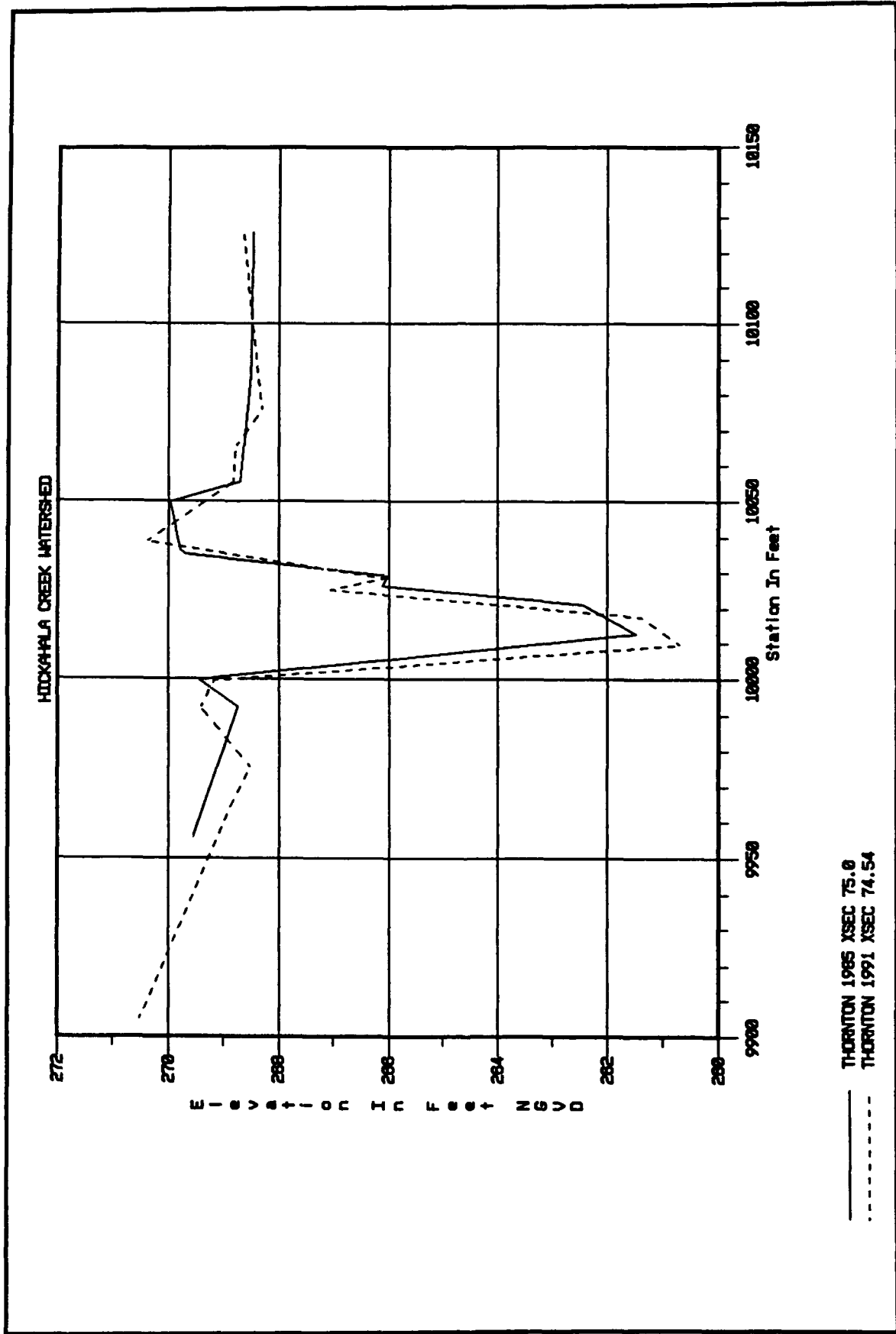
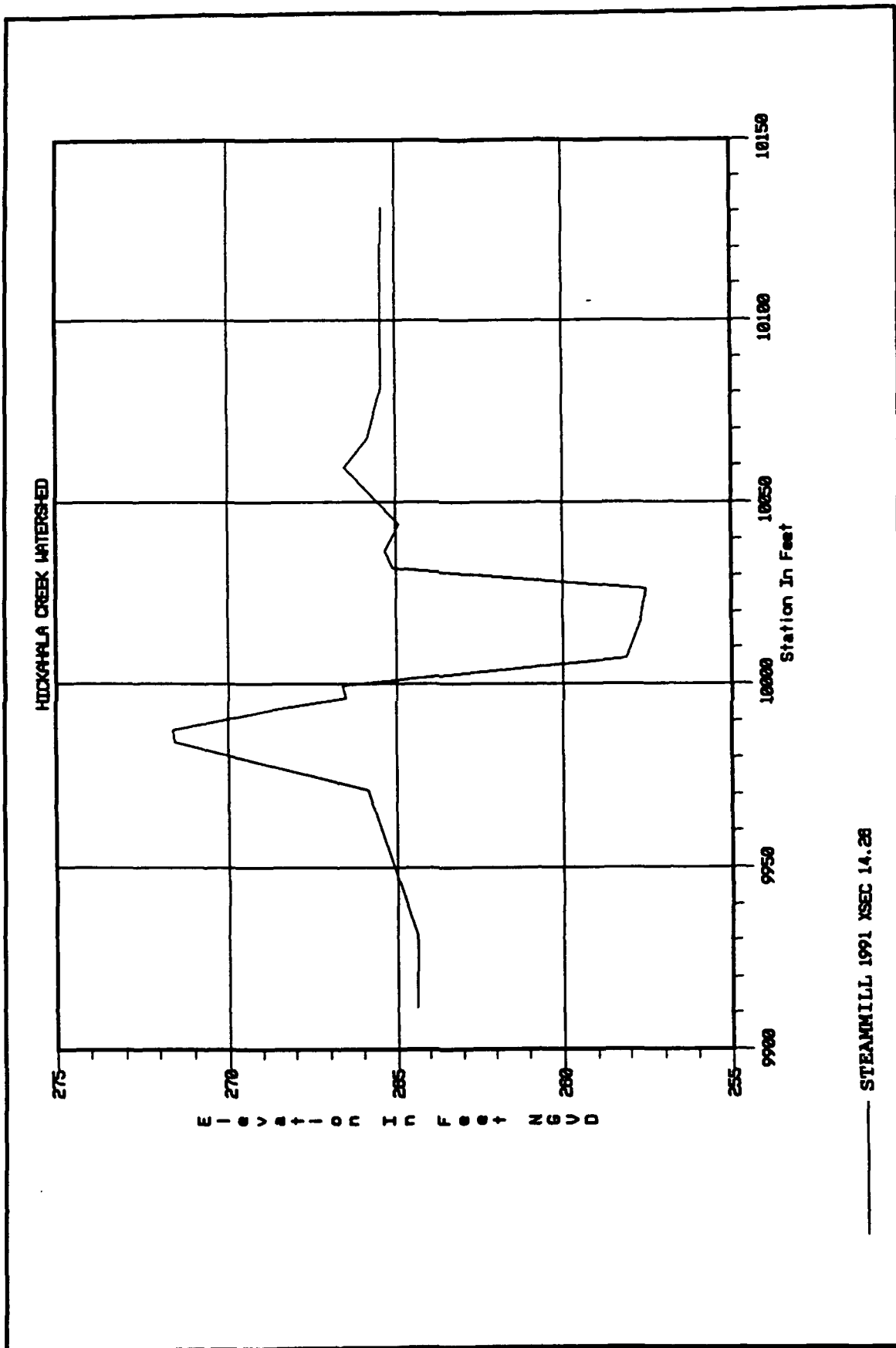
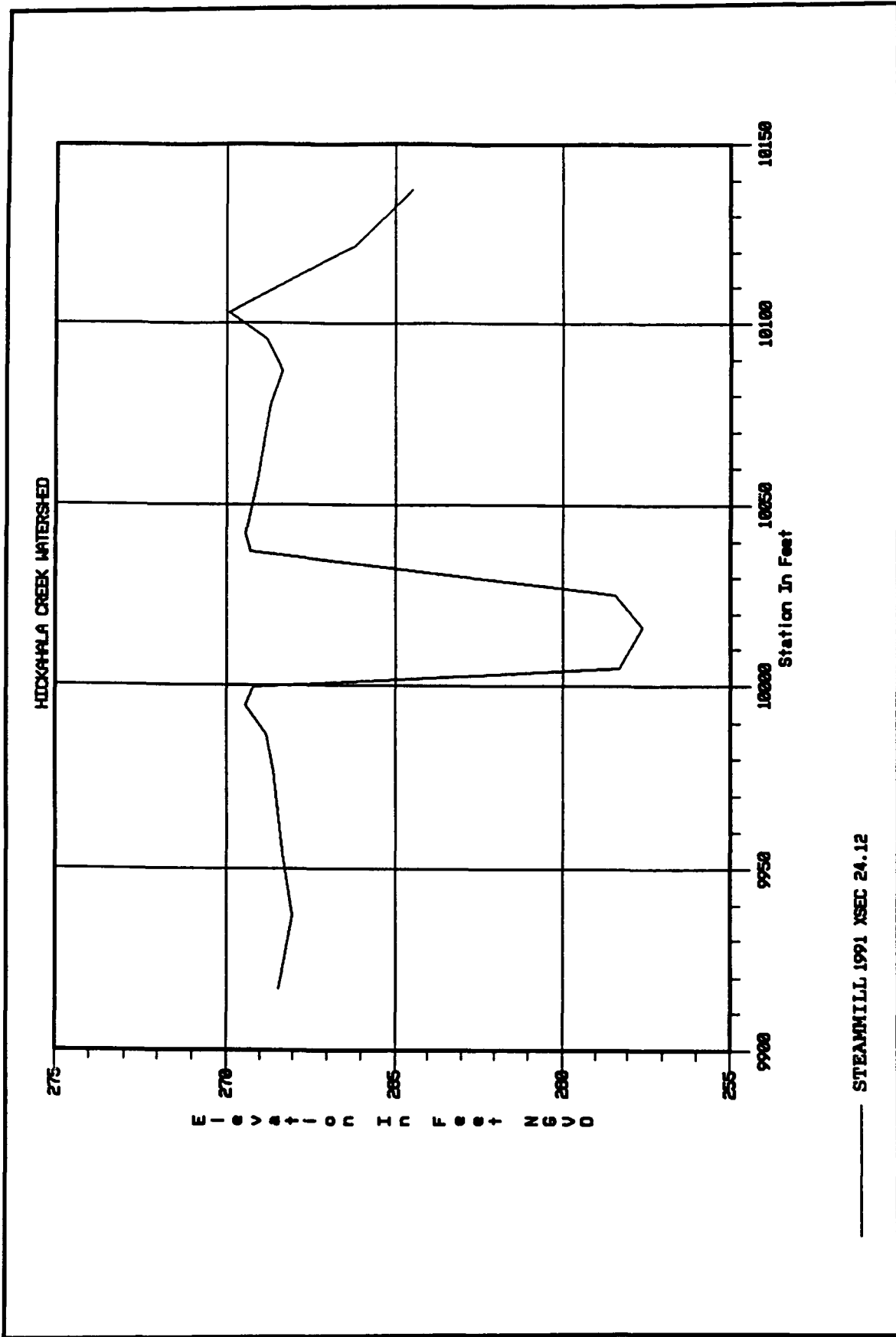
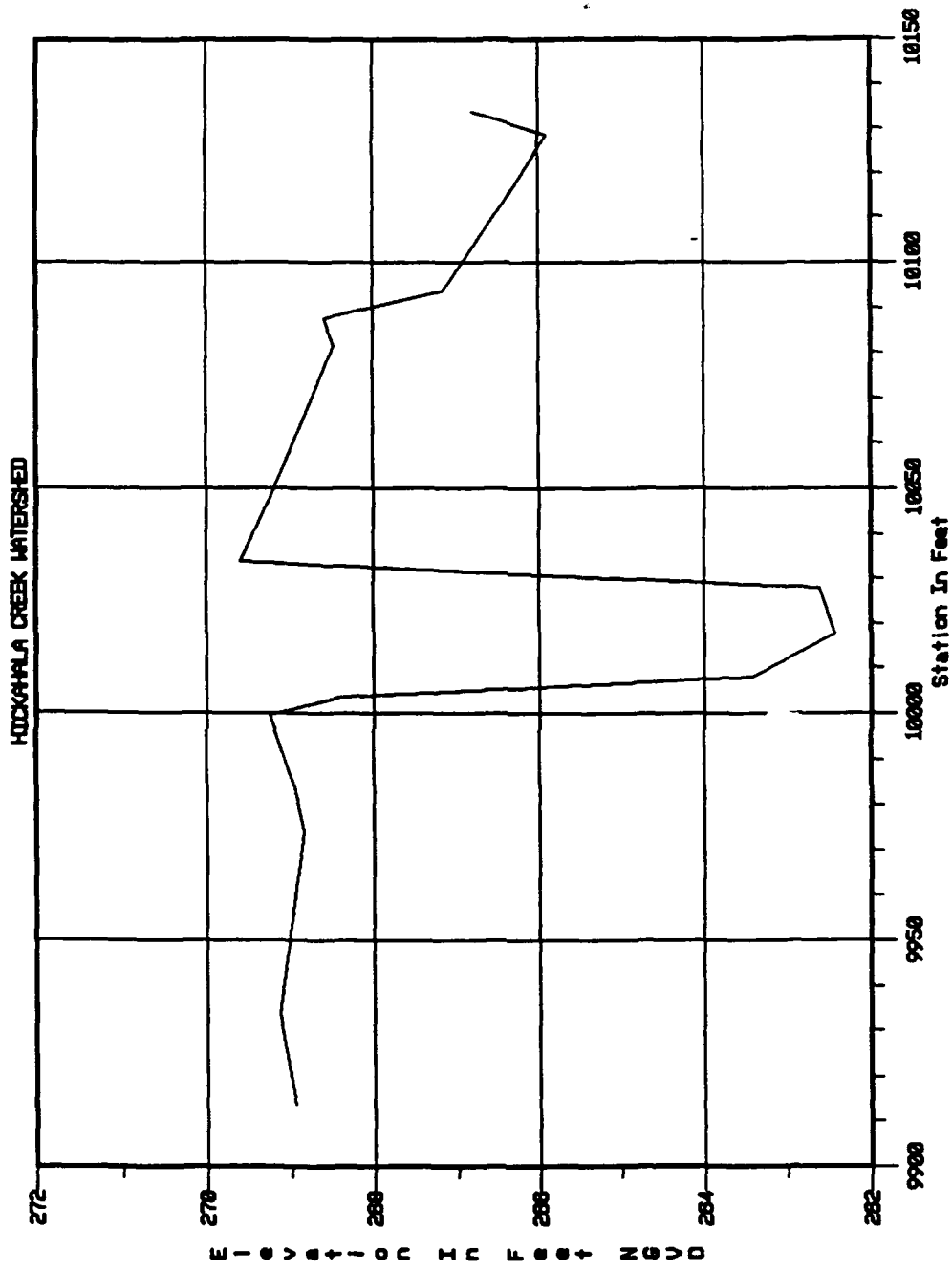


PLATE A38







STEAMHILL 1991 XSEC 25.33

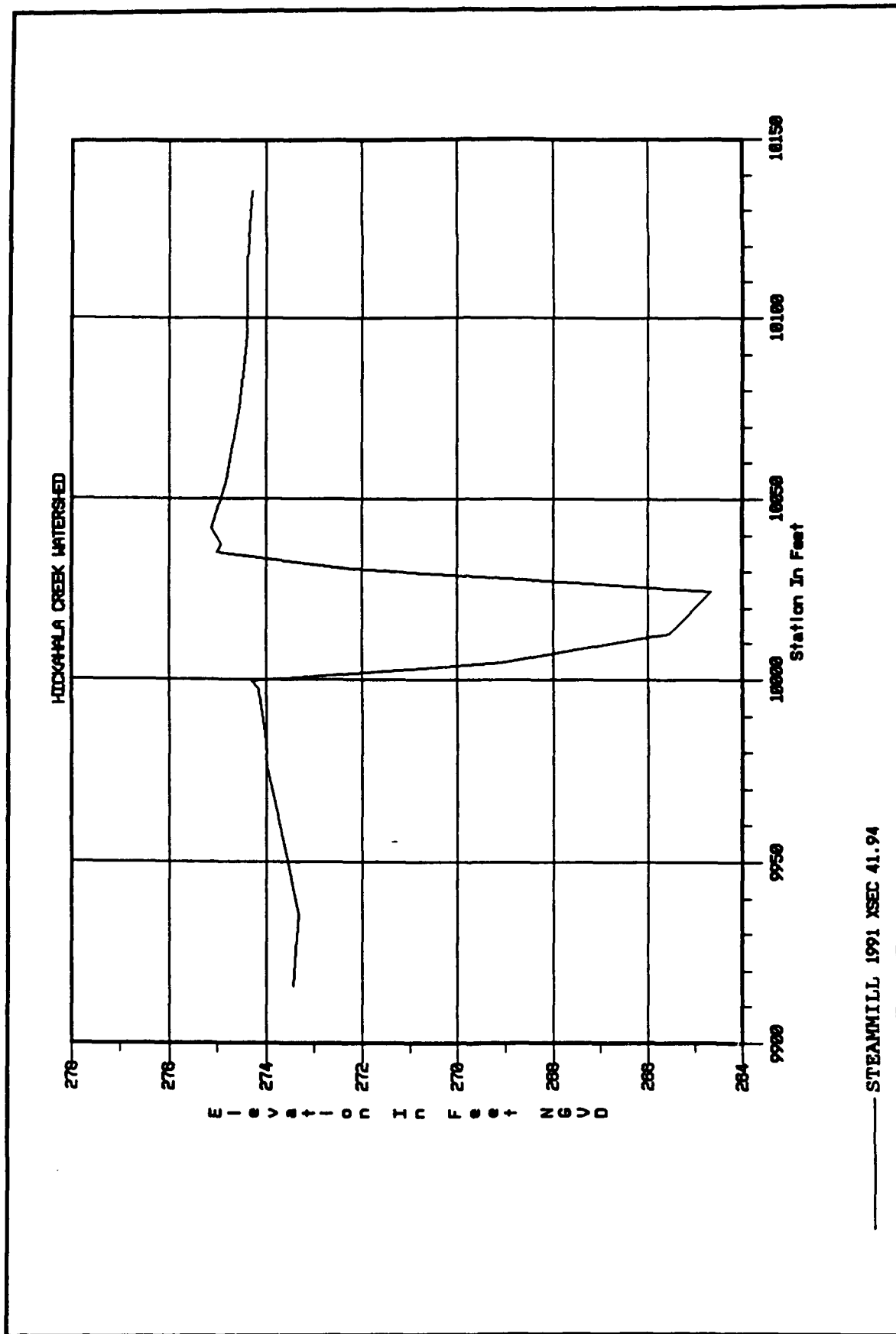


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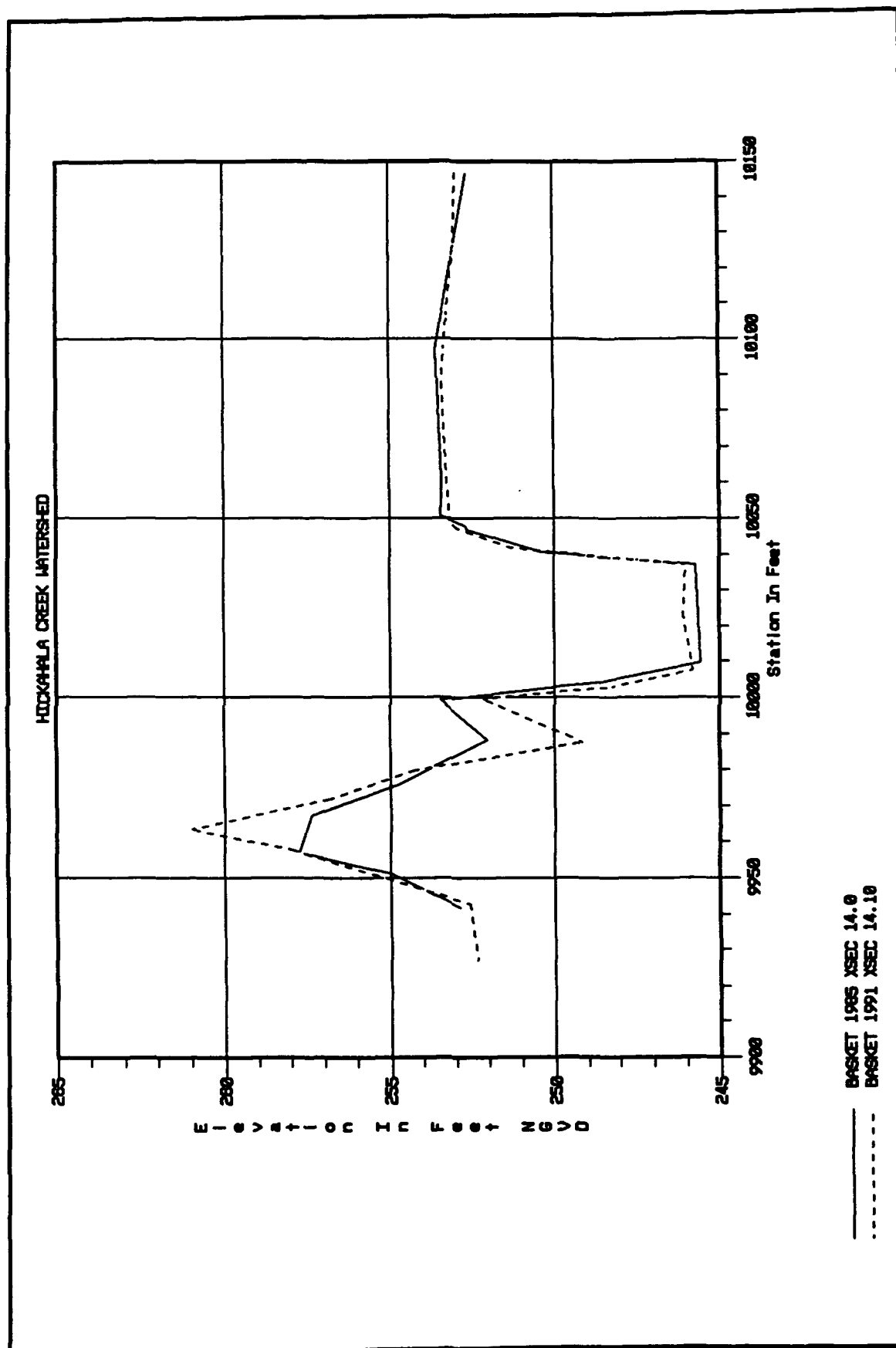


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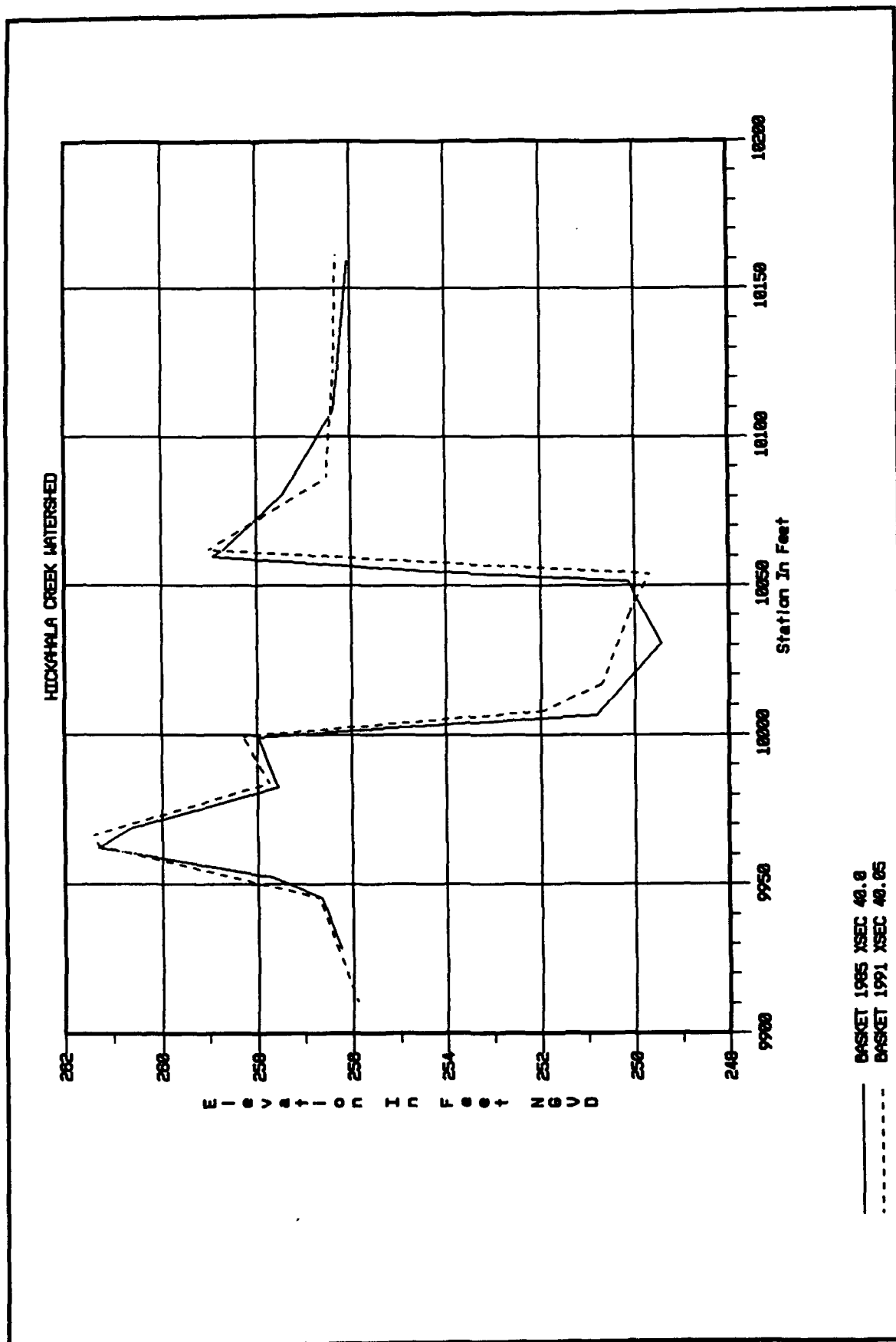
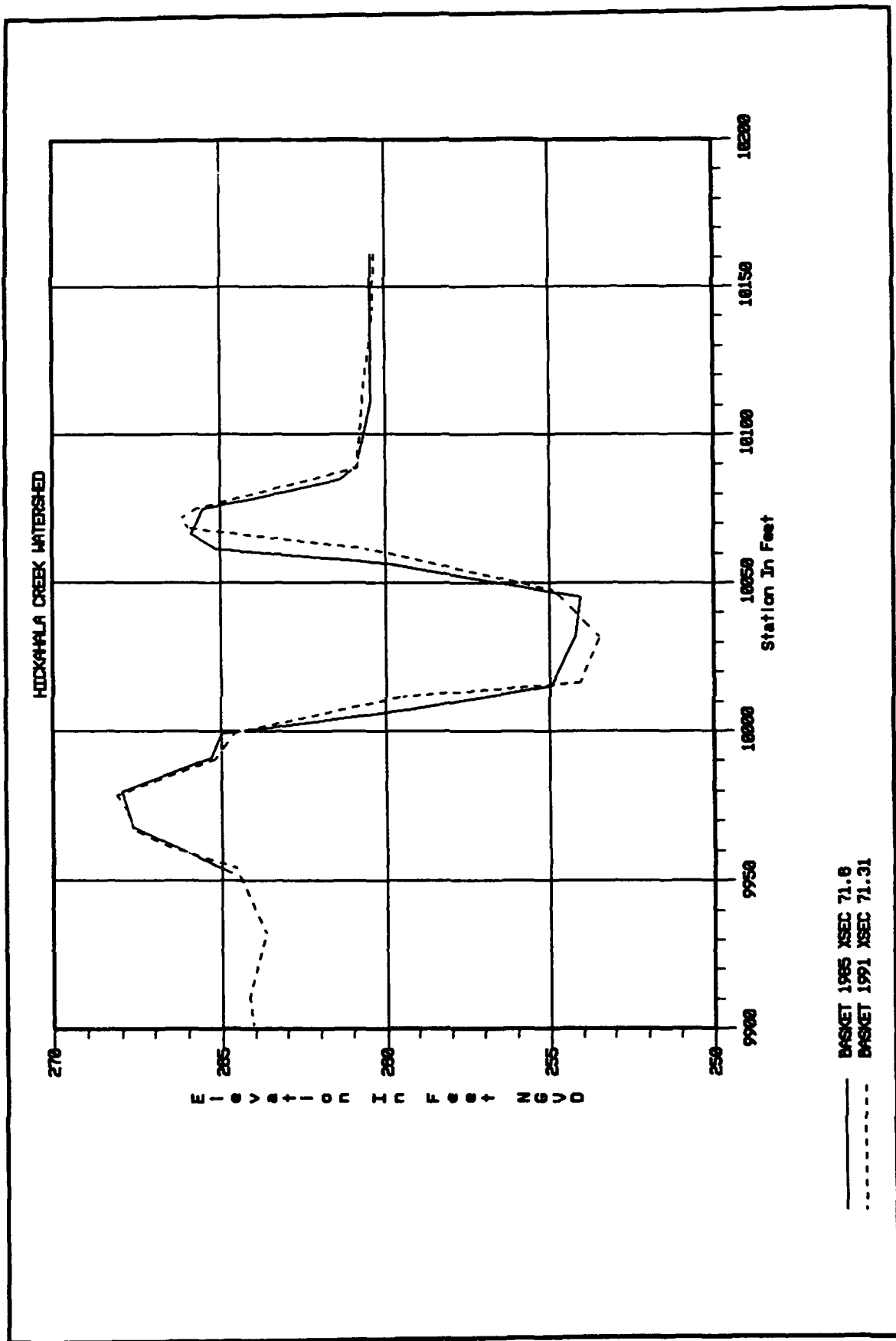


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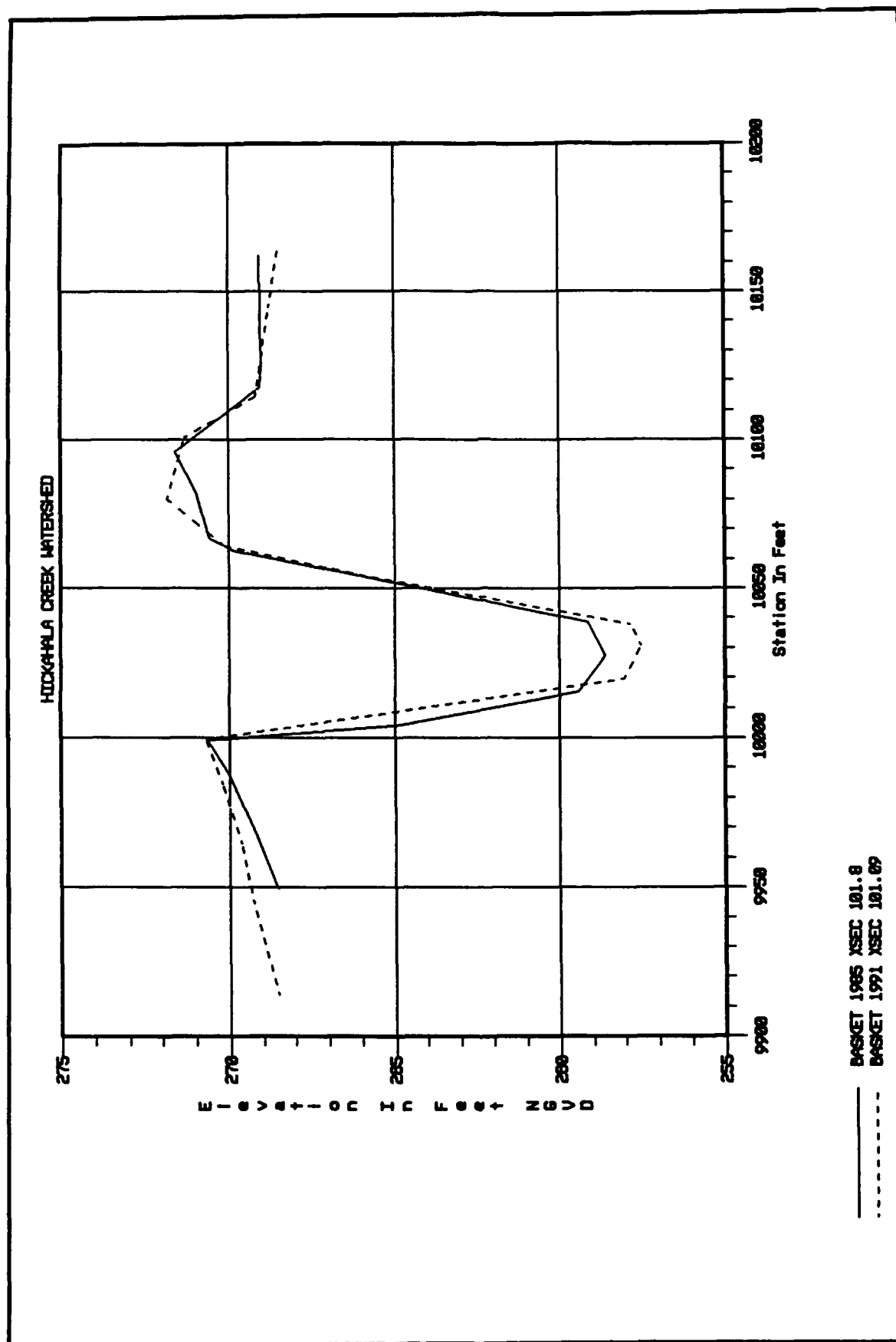
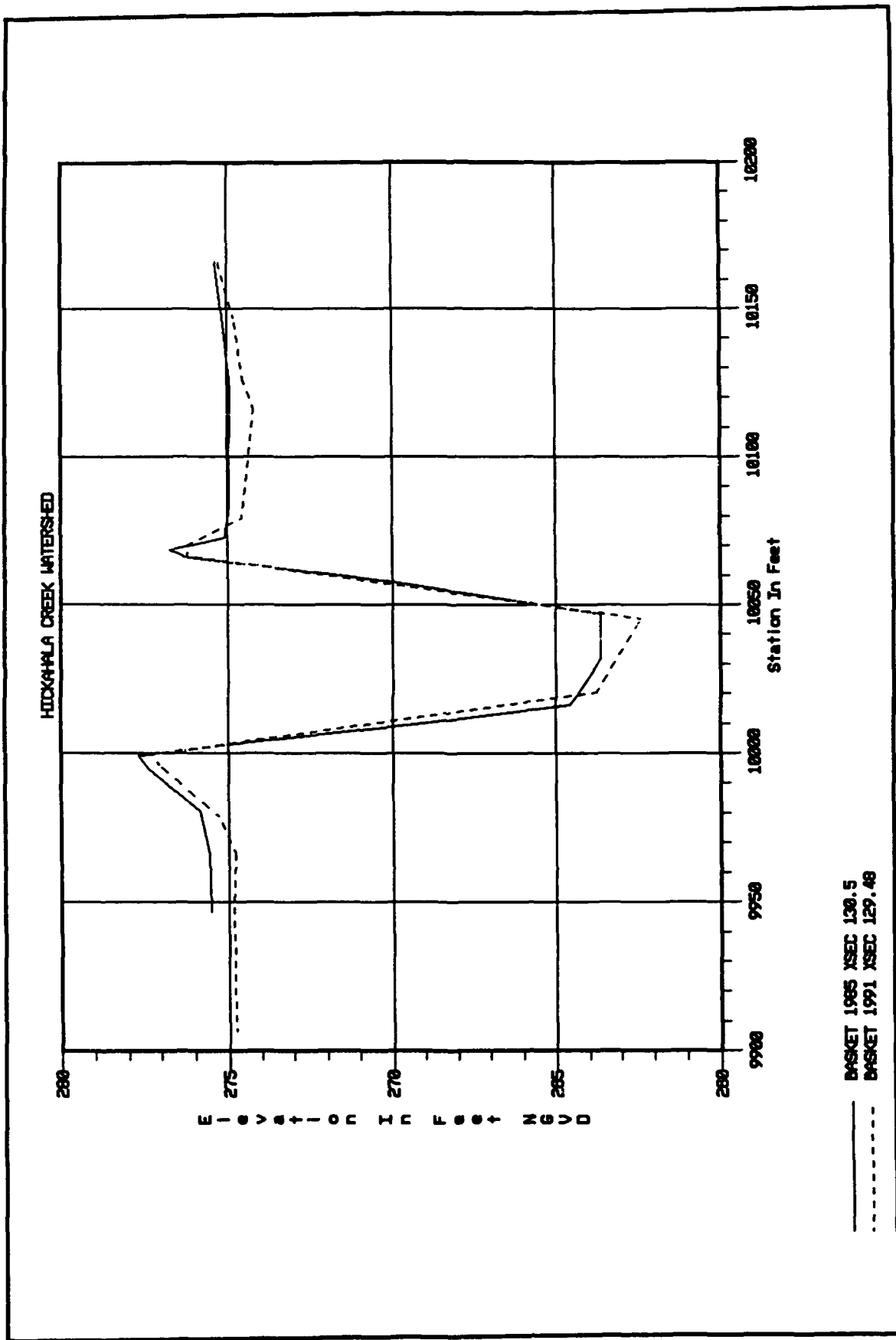


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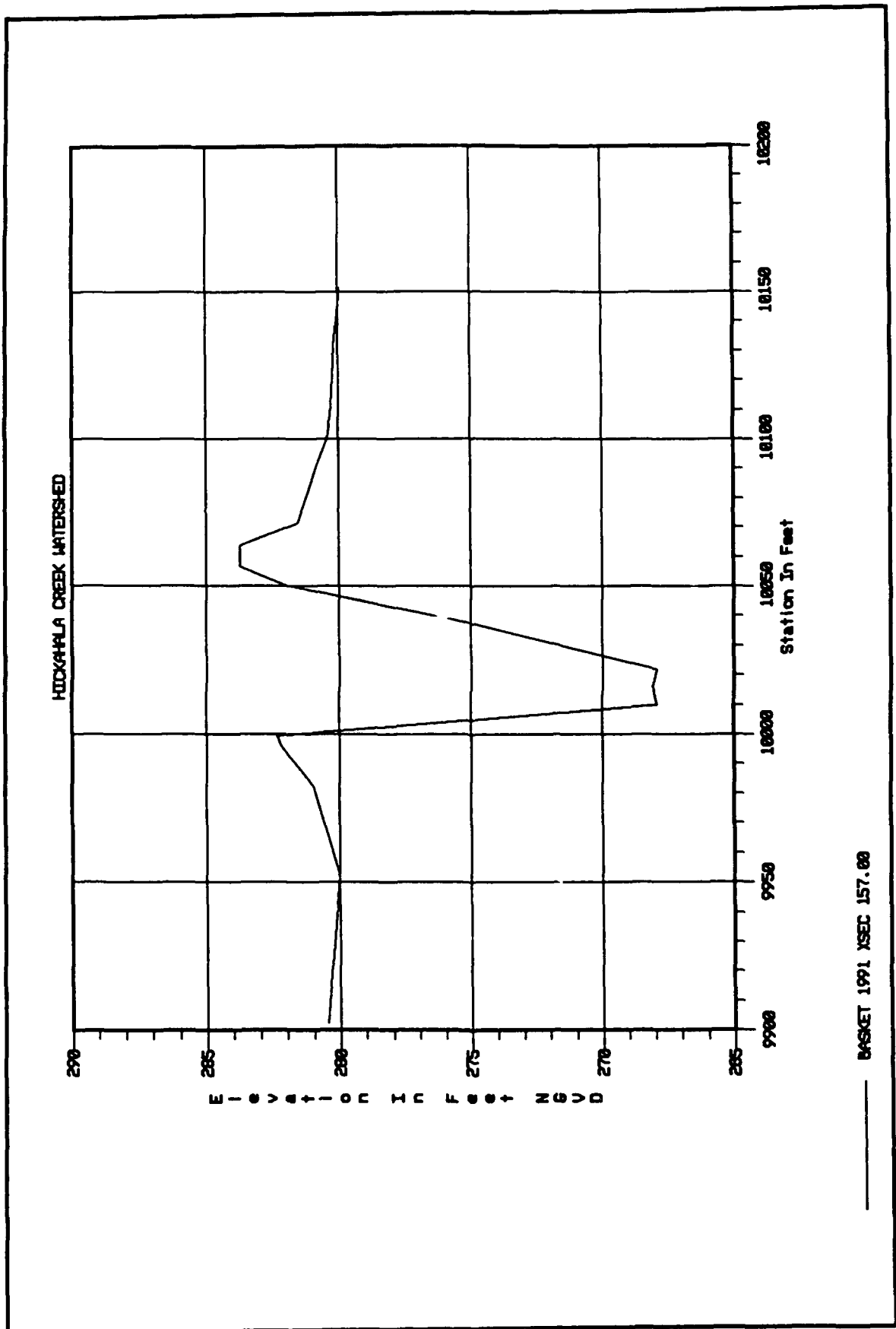
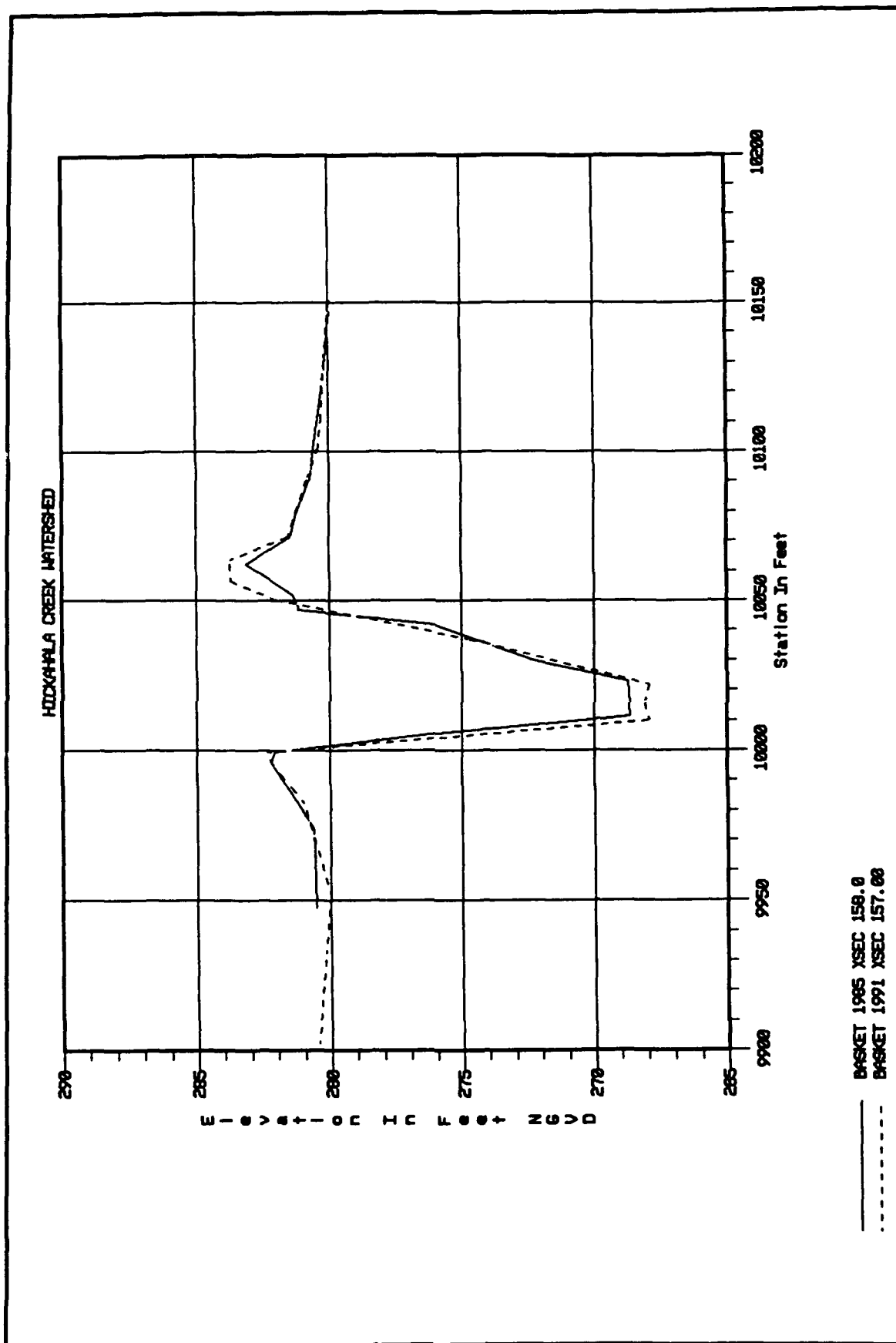
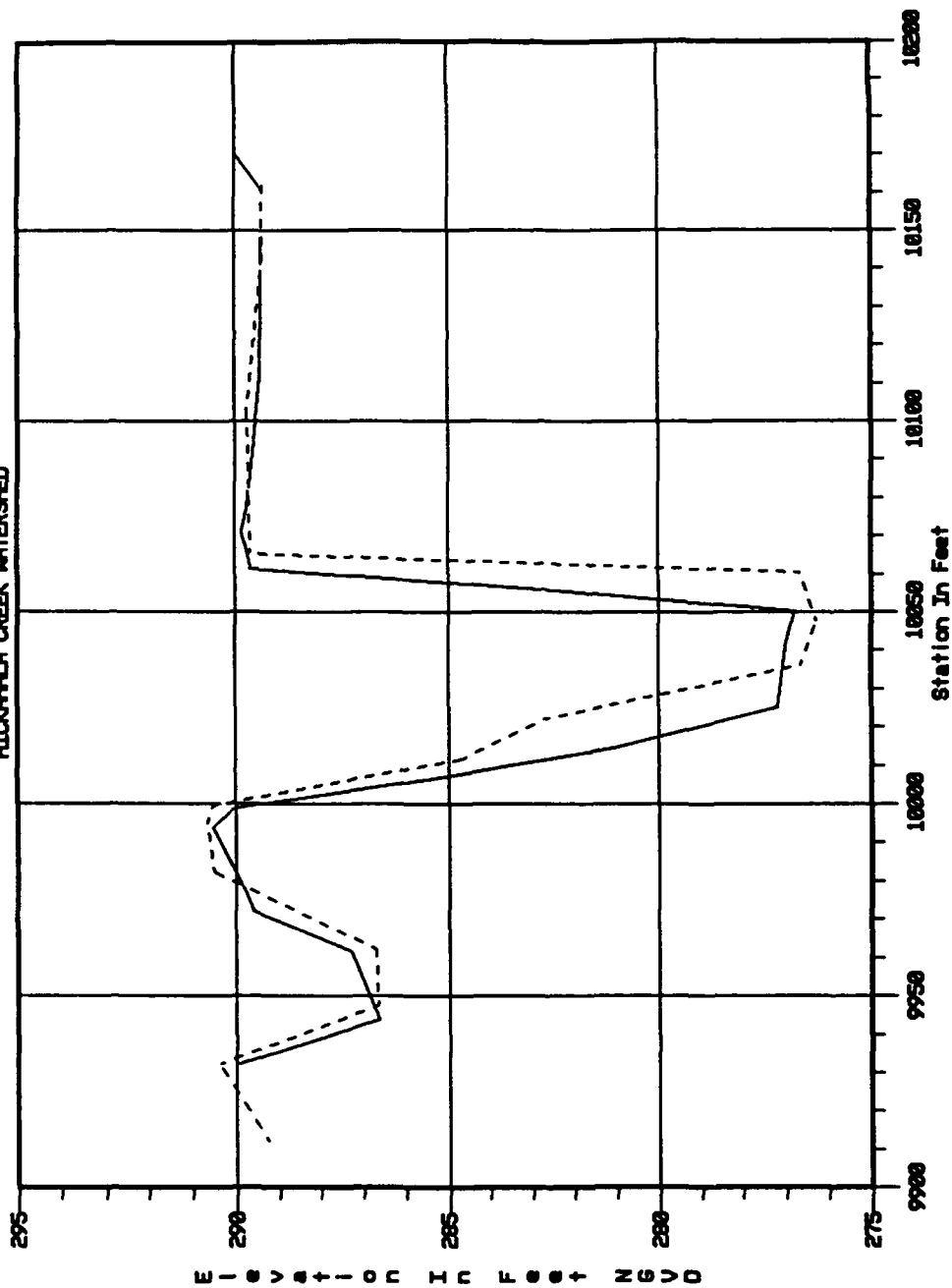


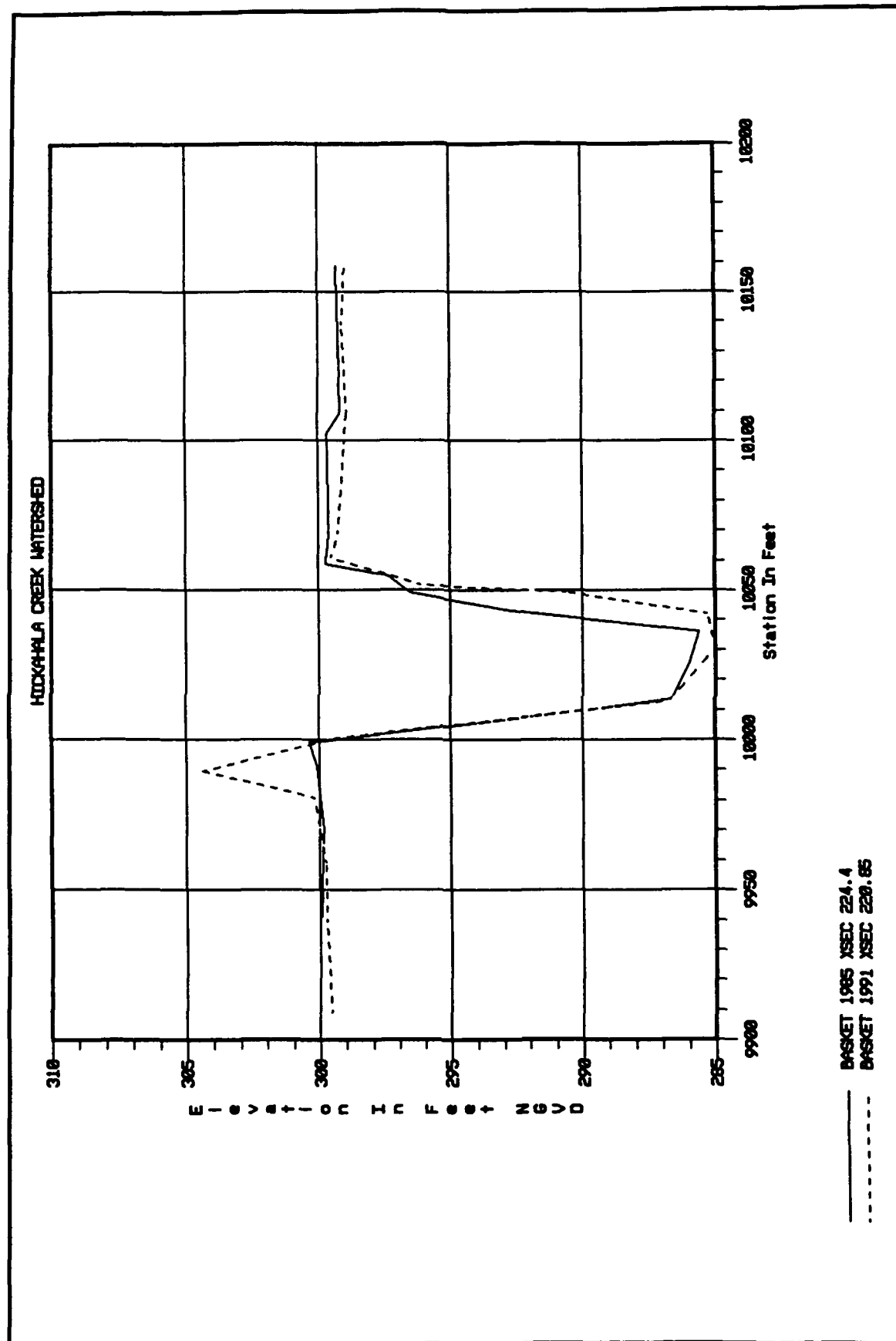
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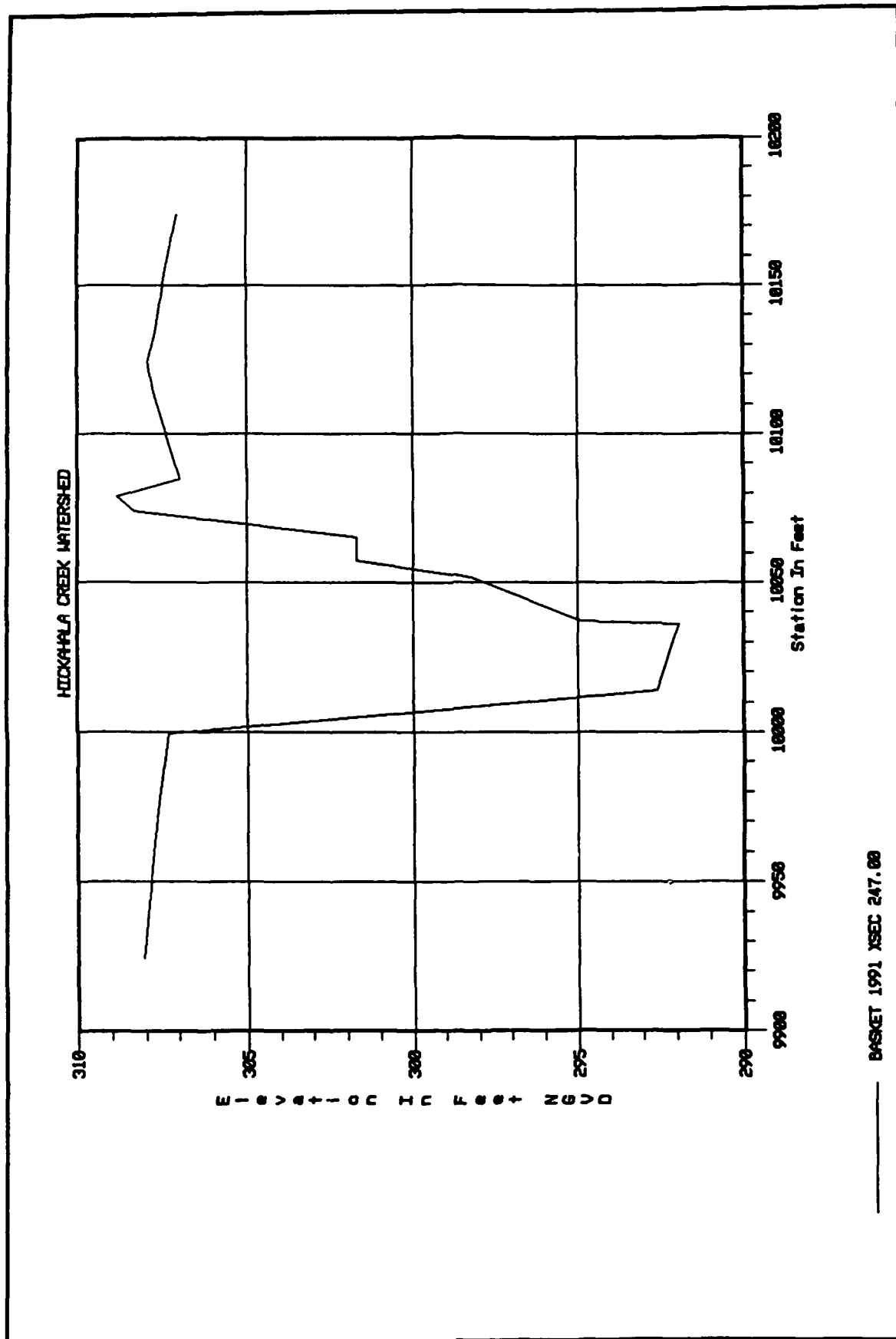


HICKAHALA CREEK WATERSHED

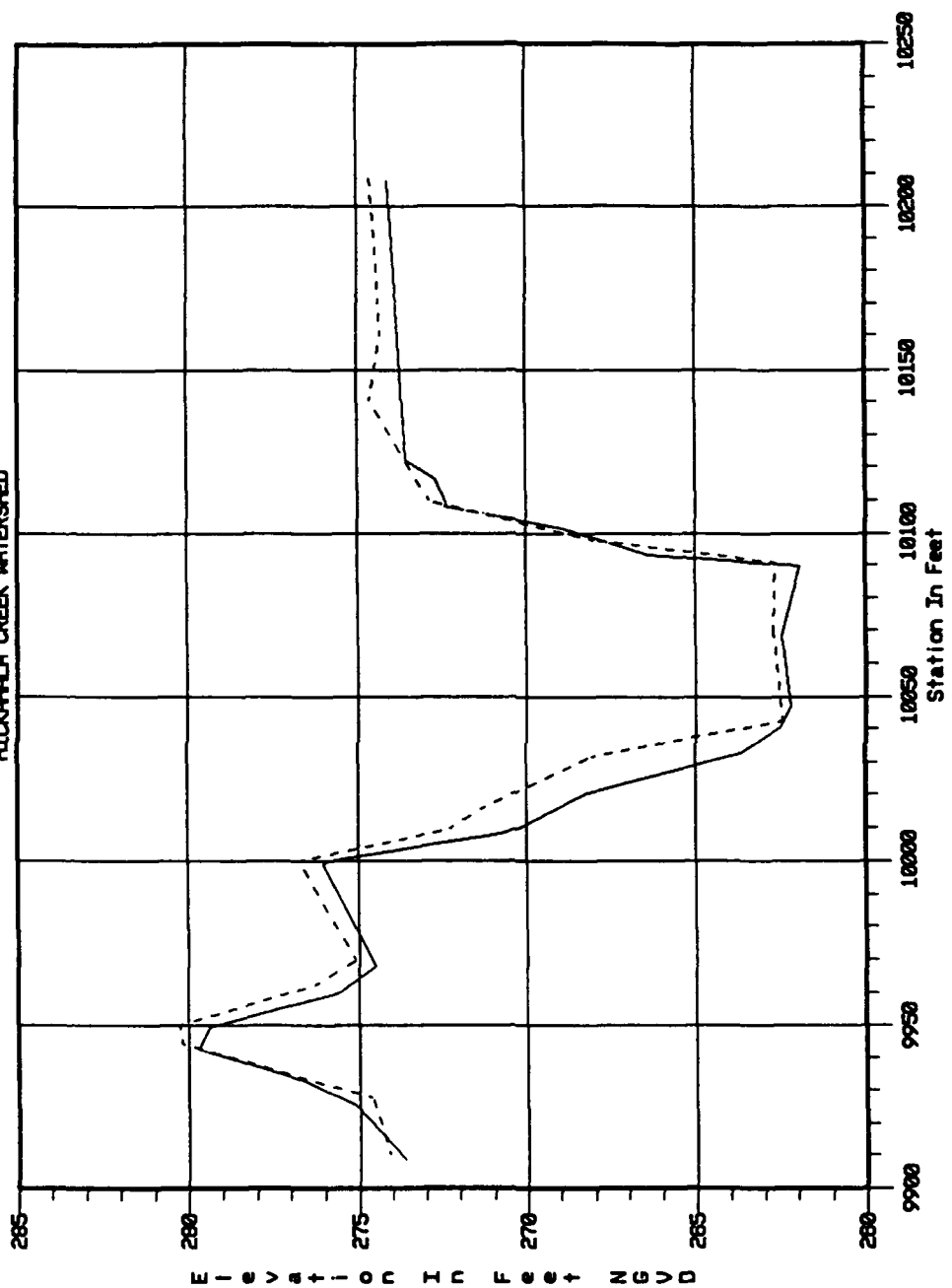


— BASKET 1985 XSEC 190.5
 - - - BASKET 1991 XSEC 187.40





HICKAHALA CREEK WATERSHED



— JAMES WOLF 1985 XSEC 5.5
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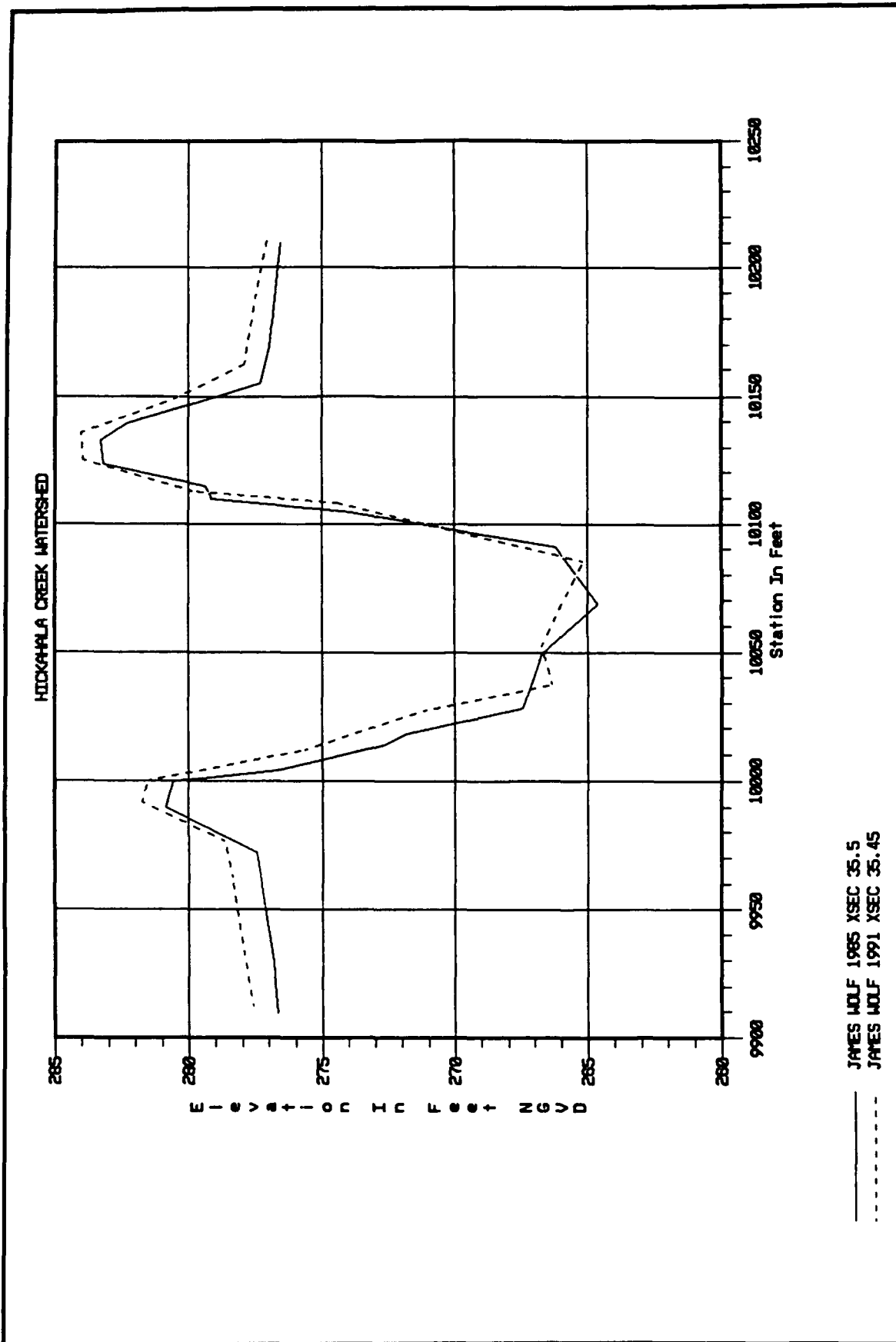
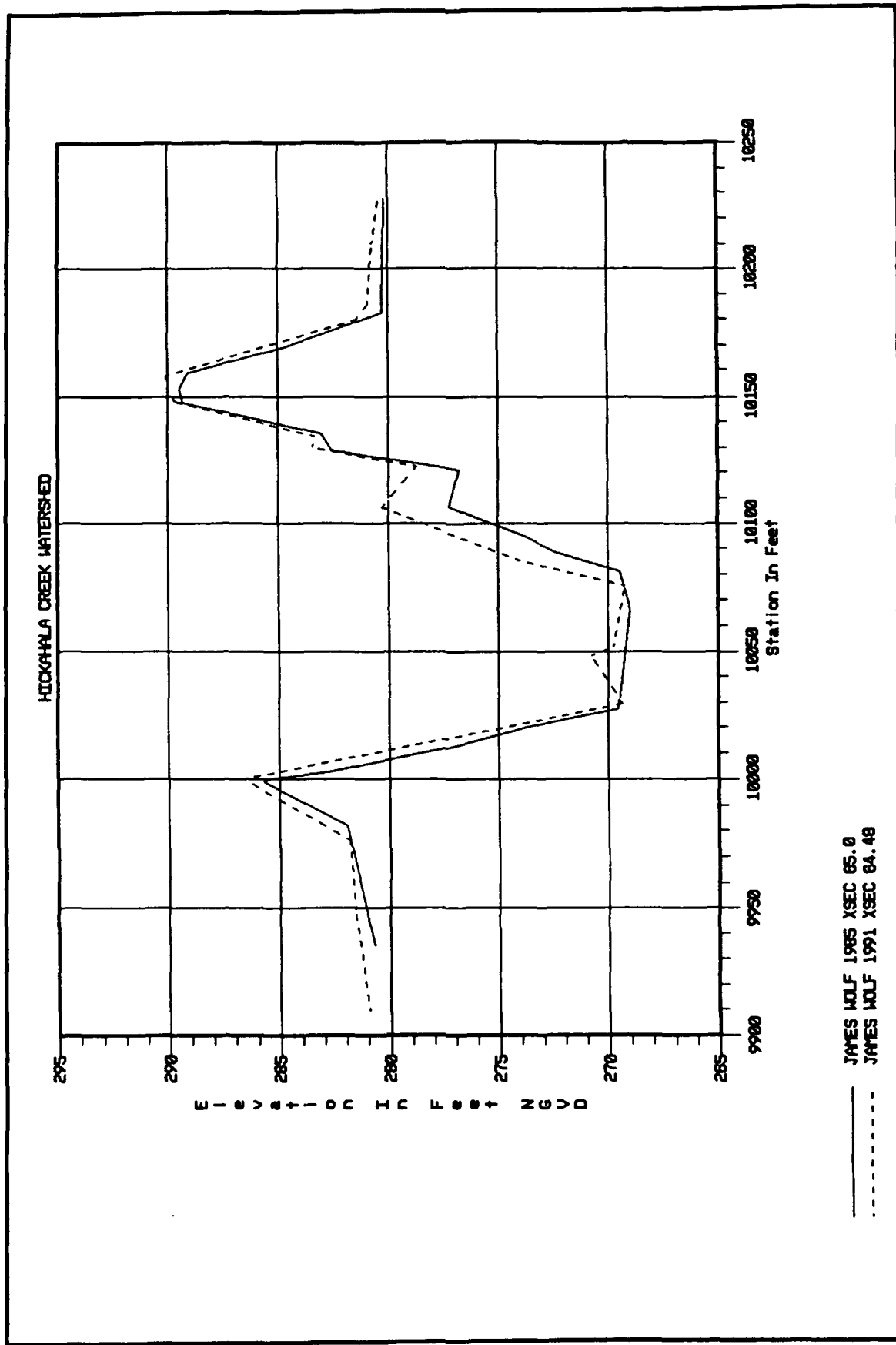


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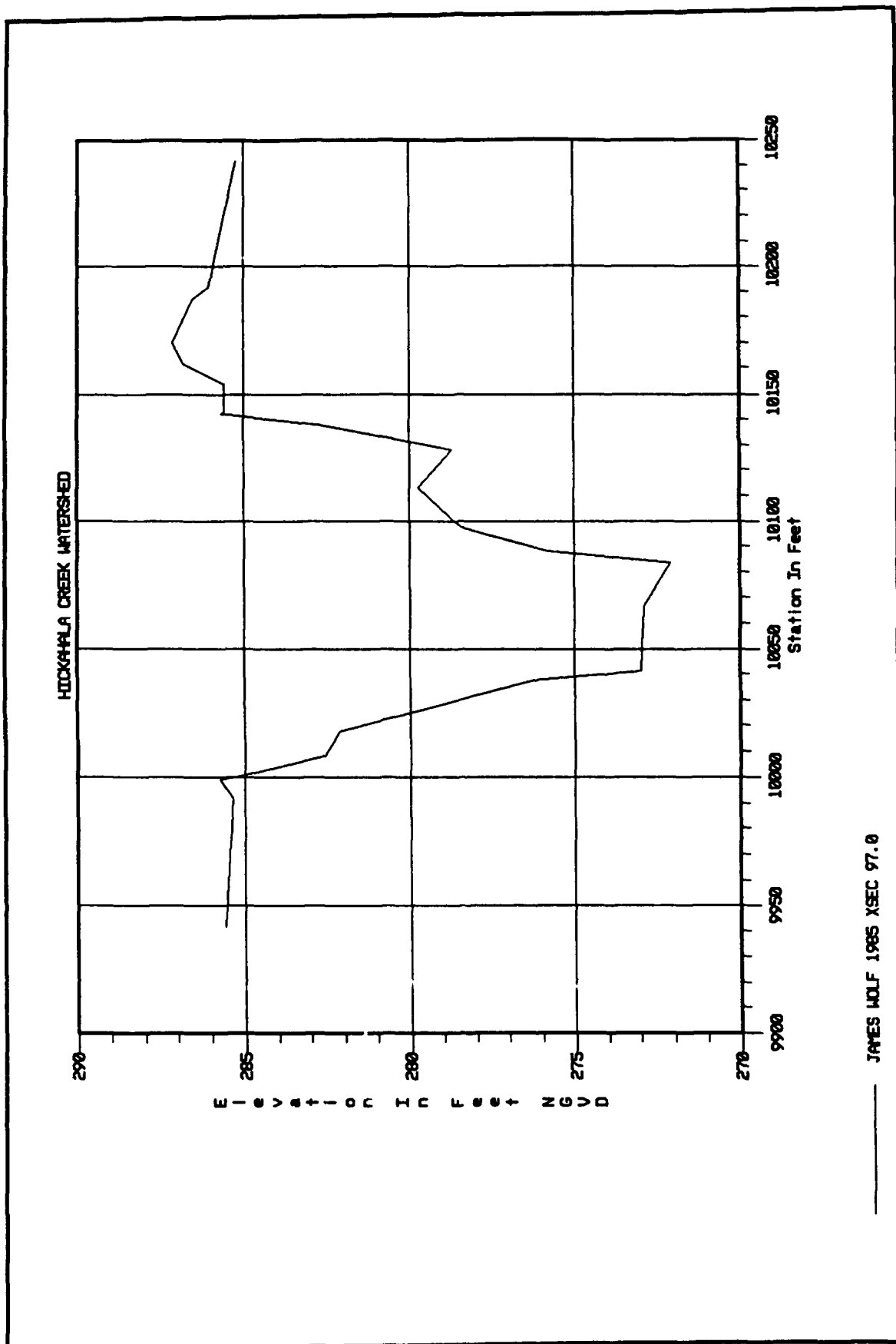
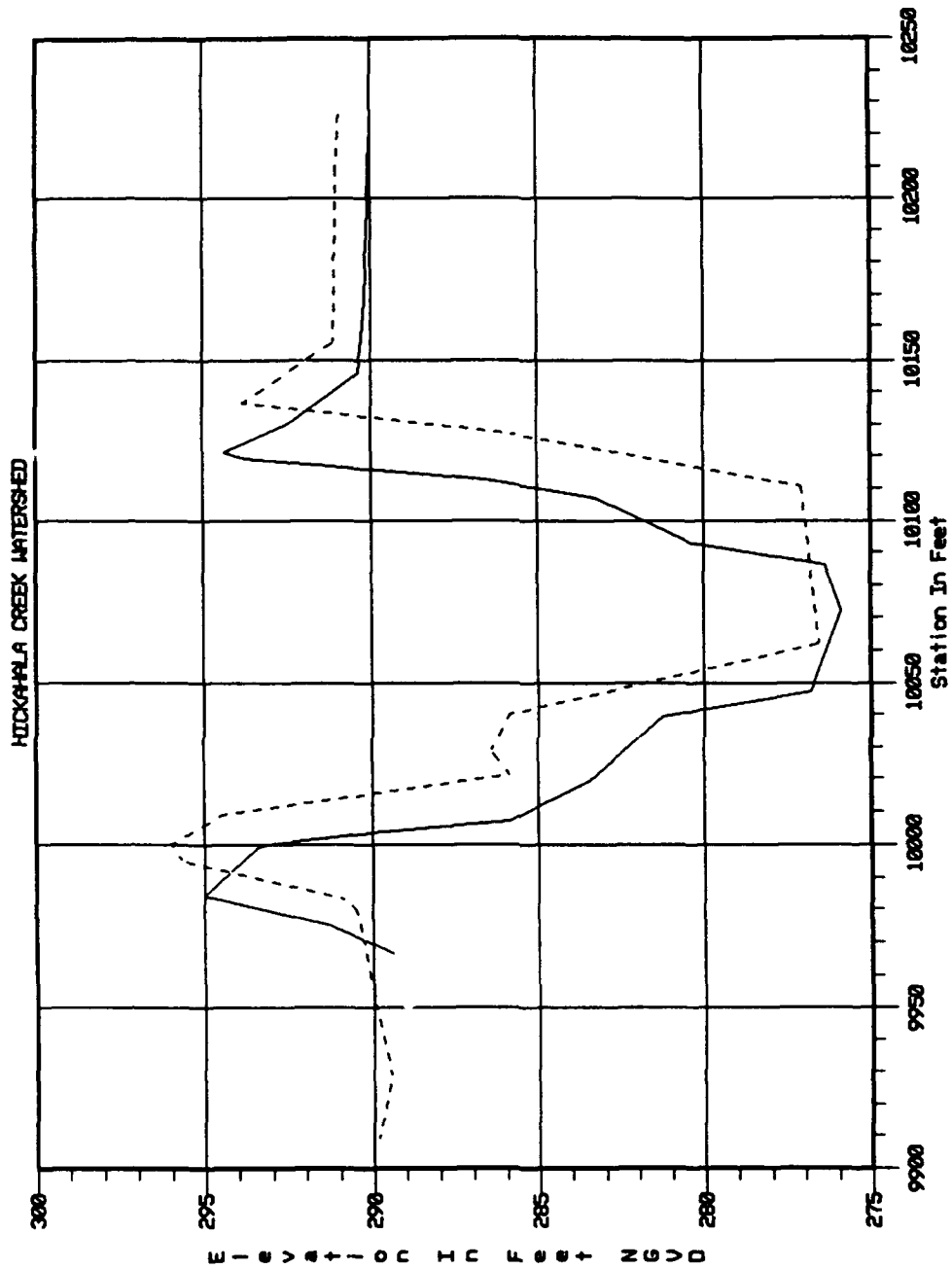
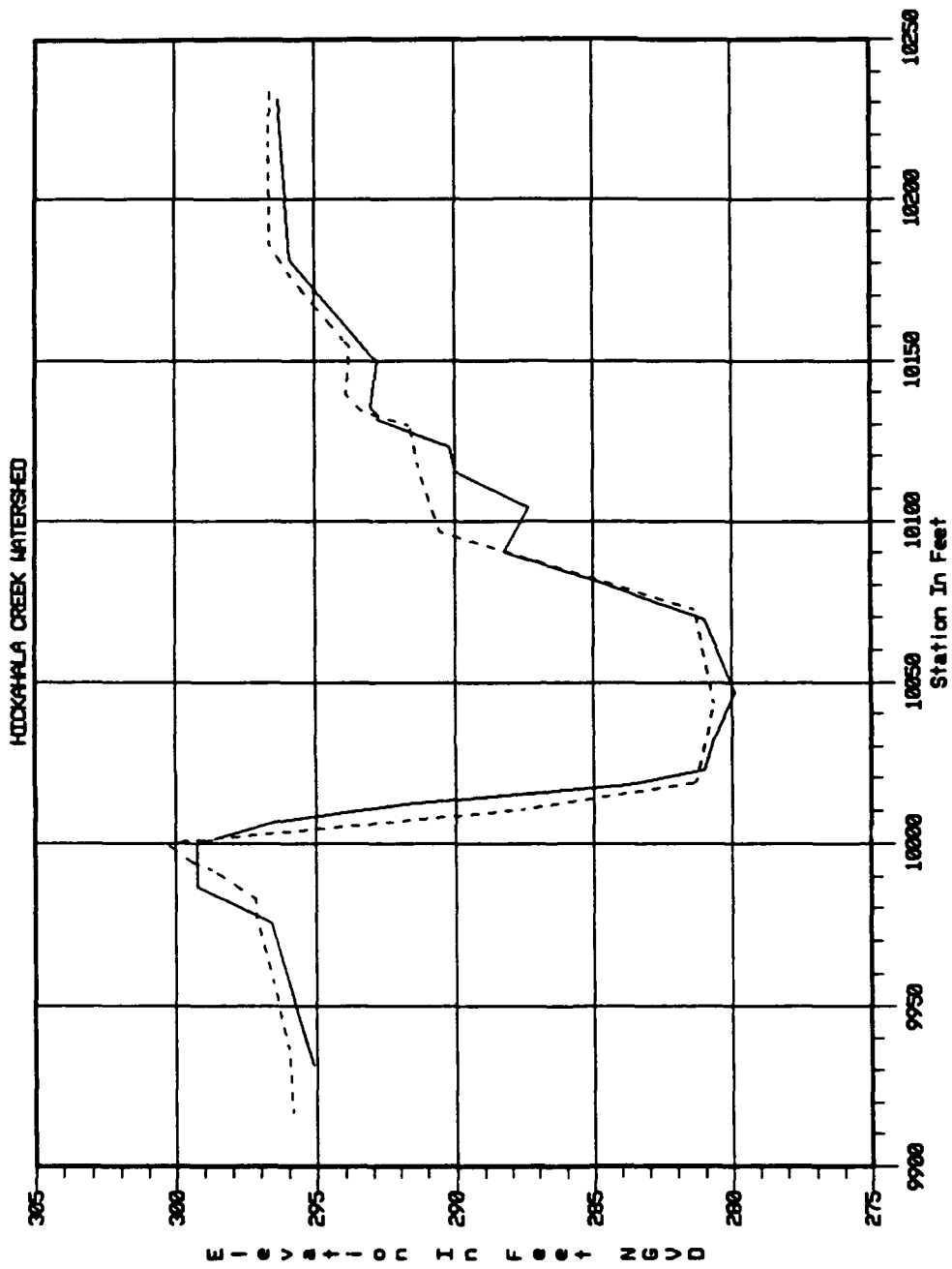


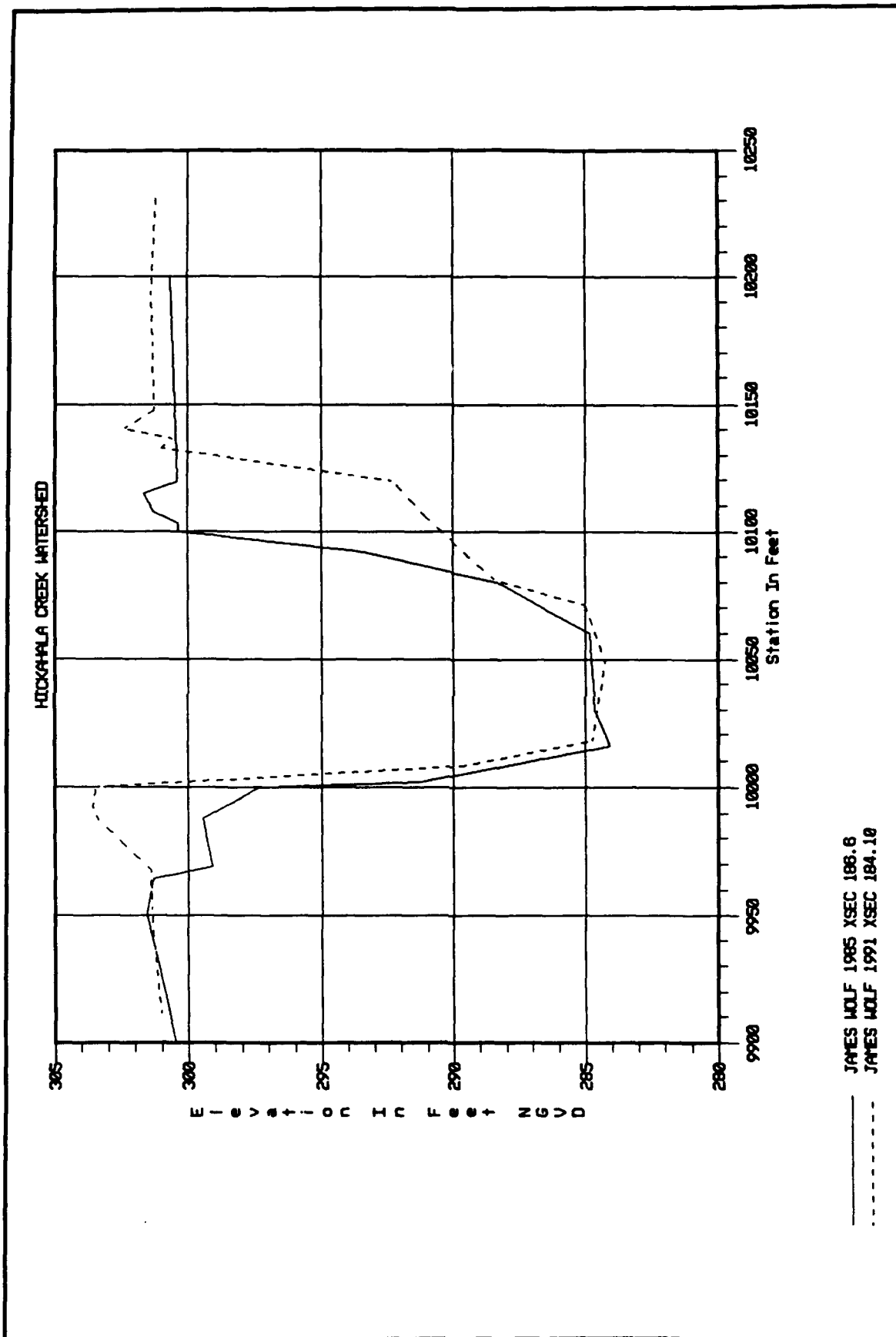
PLATE A56



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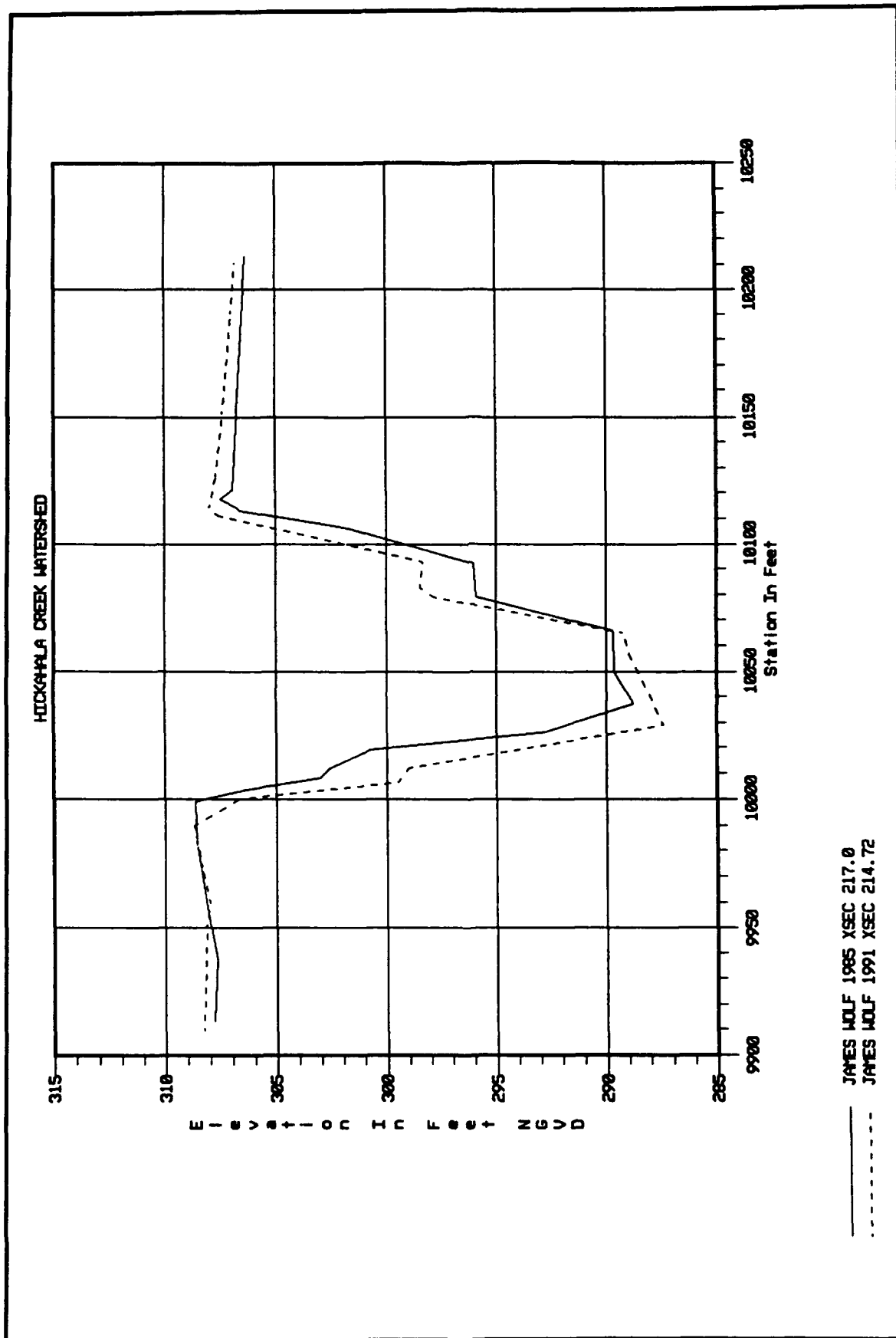


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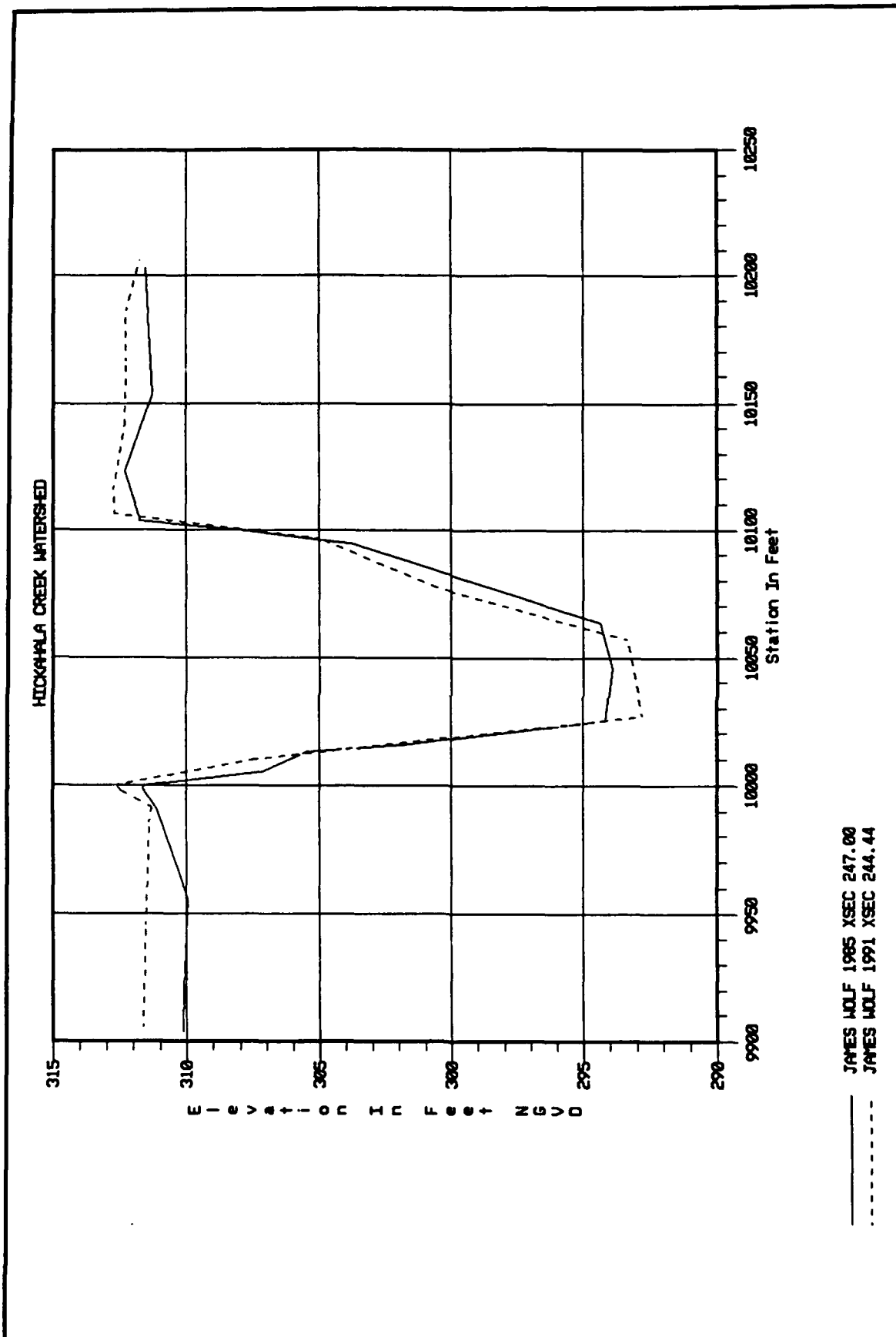


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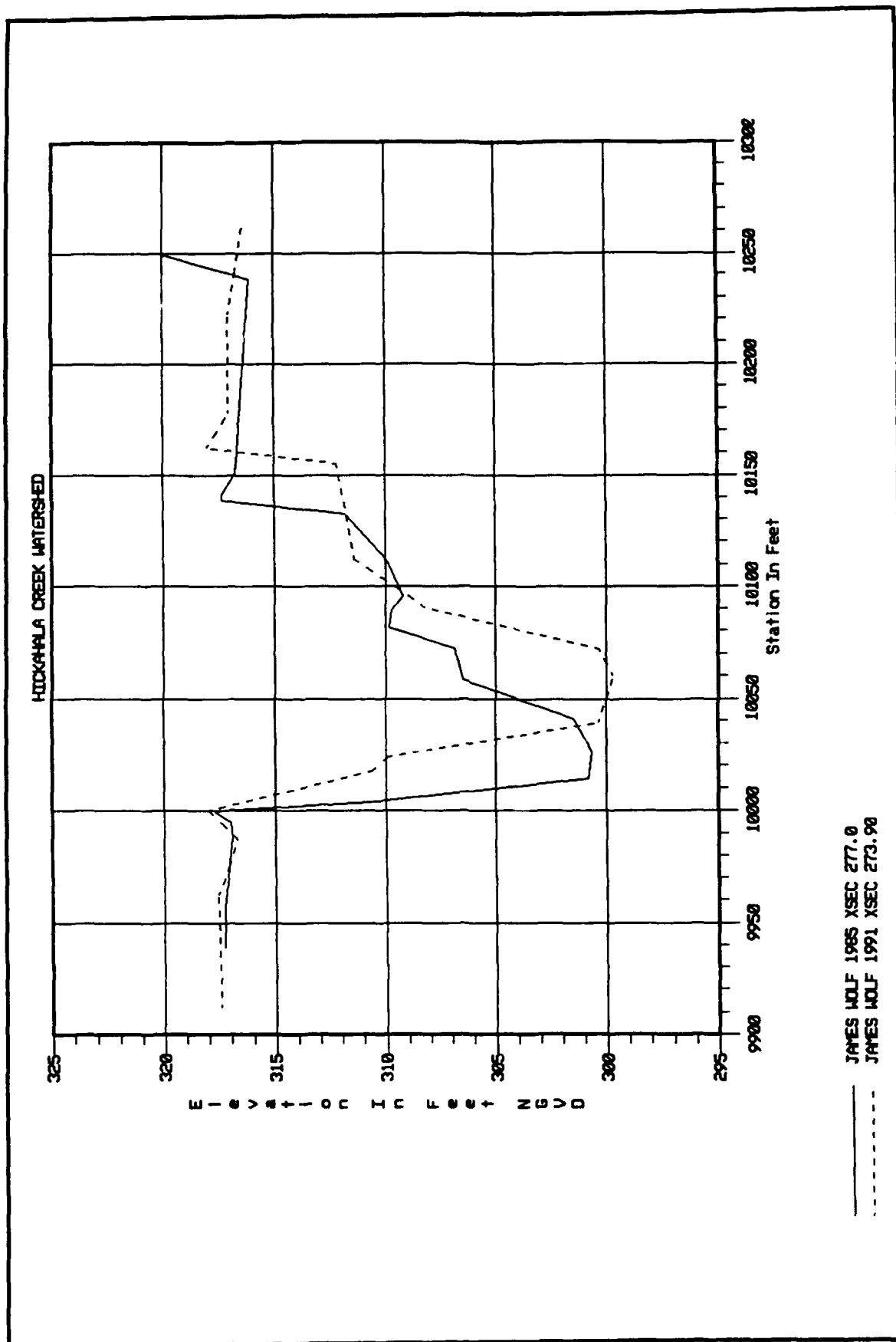


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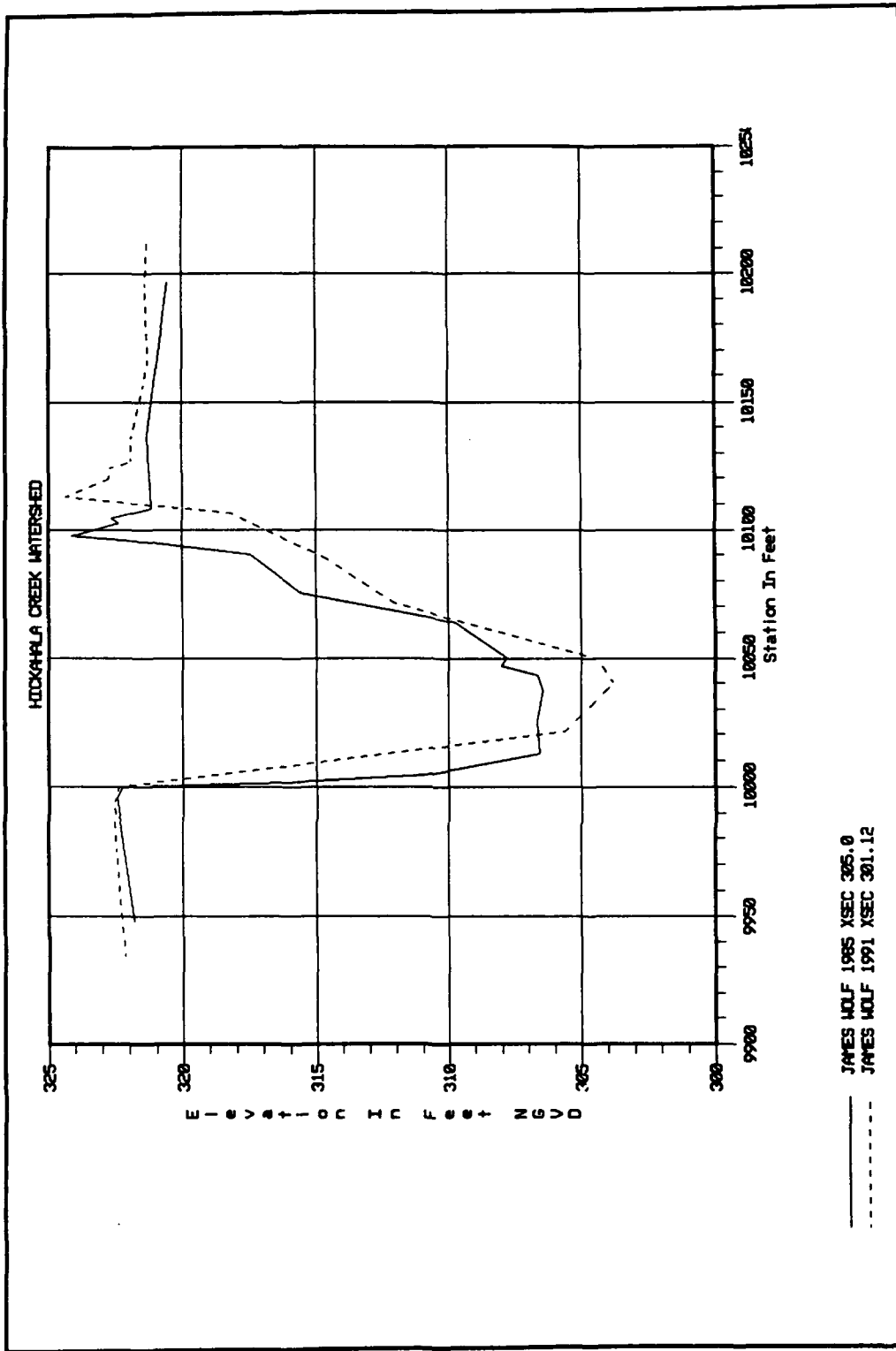


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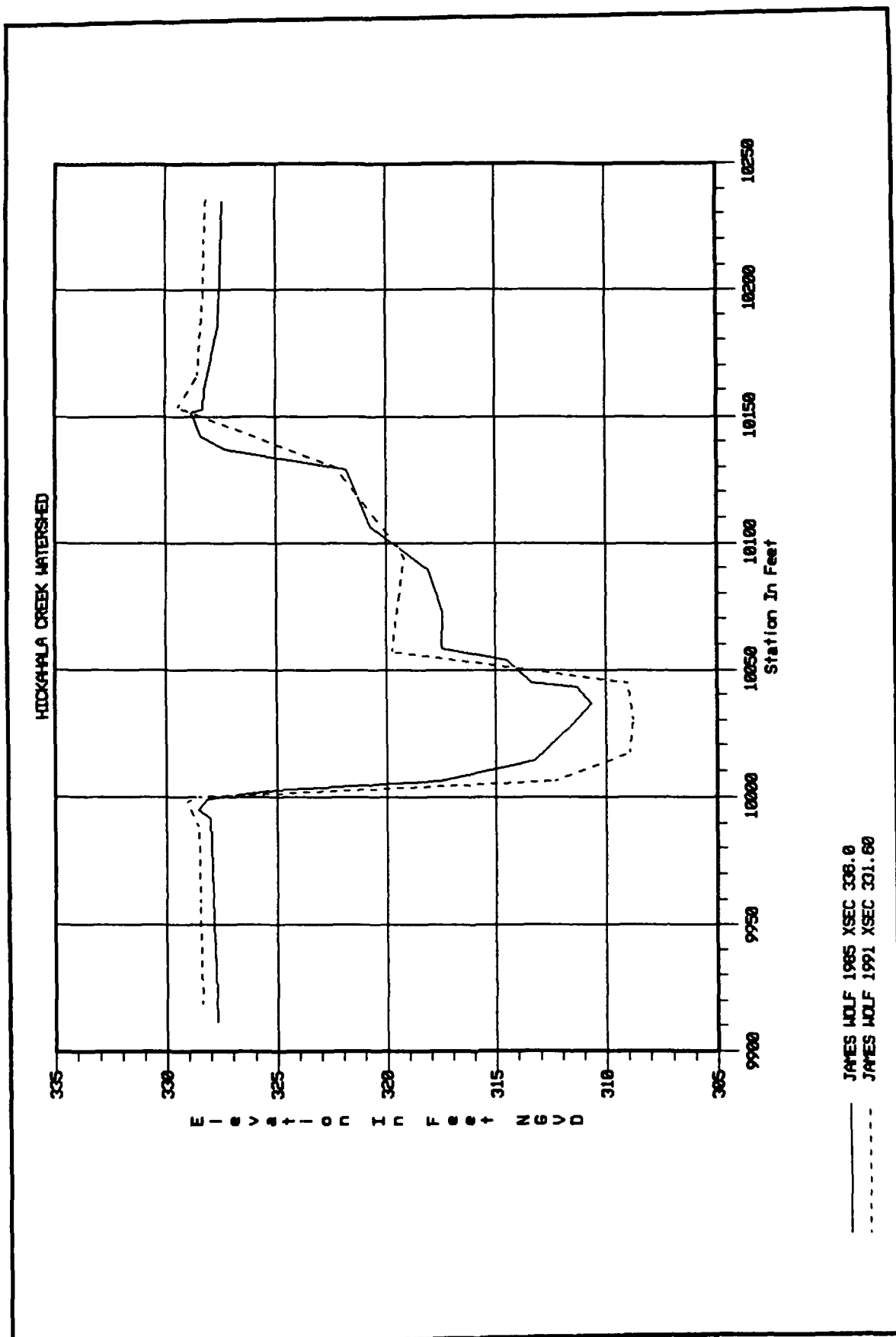
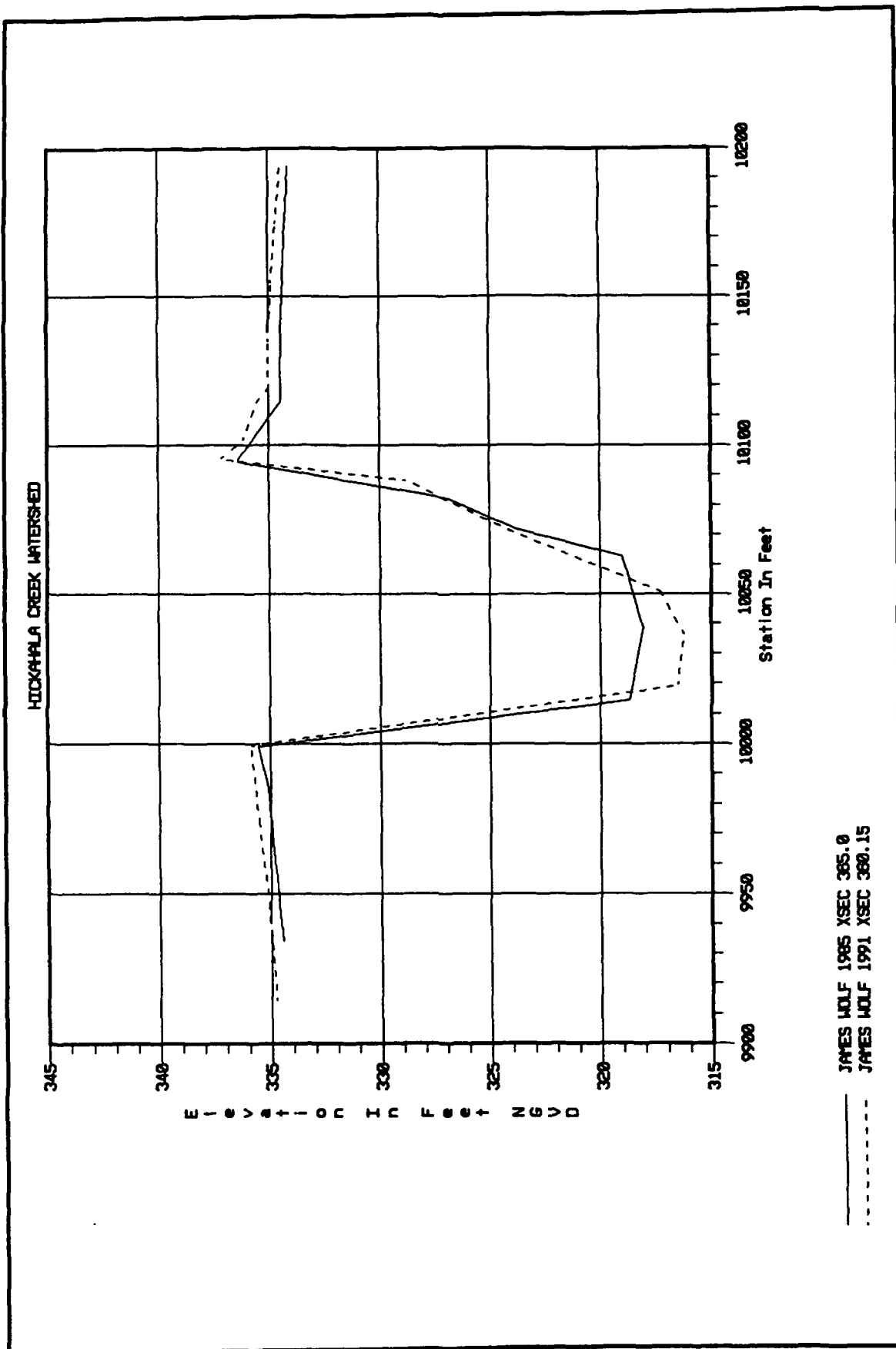


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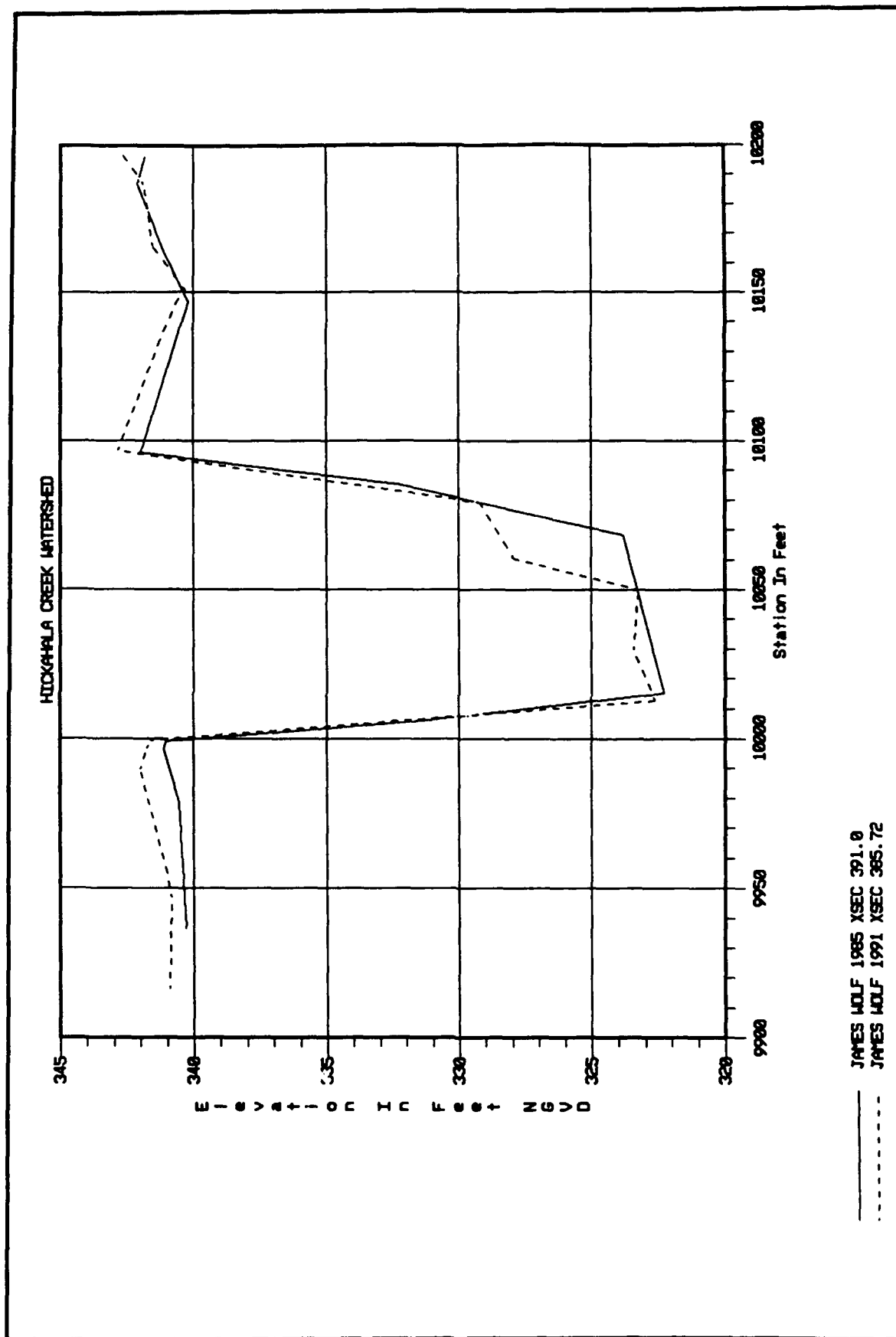
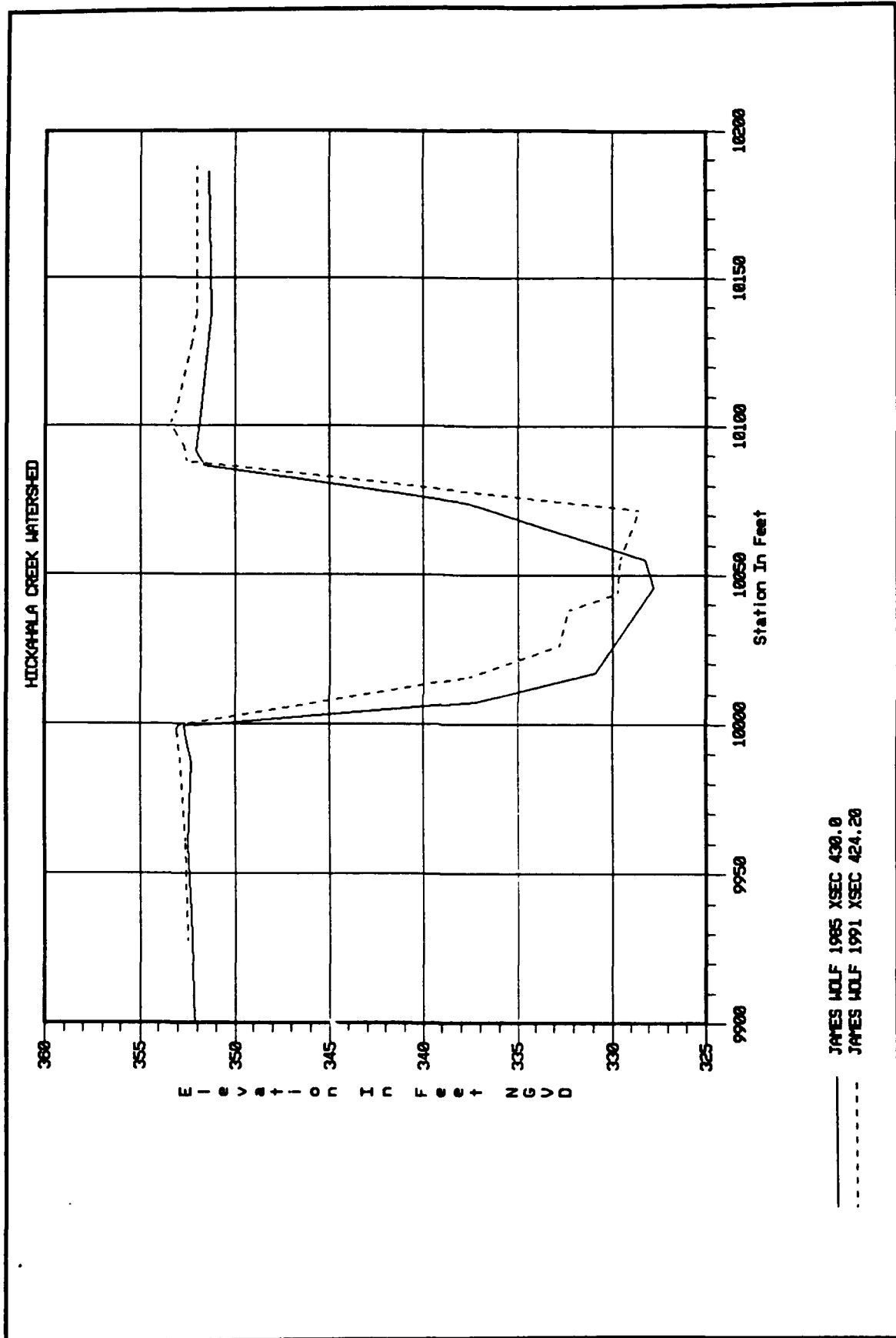


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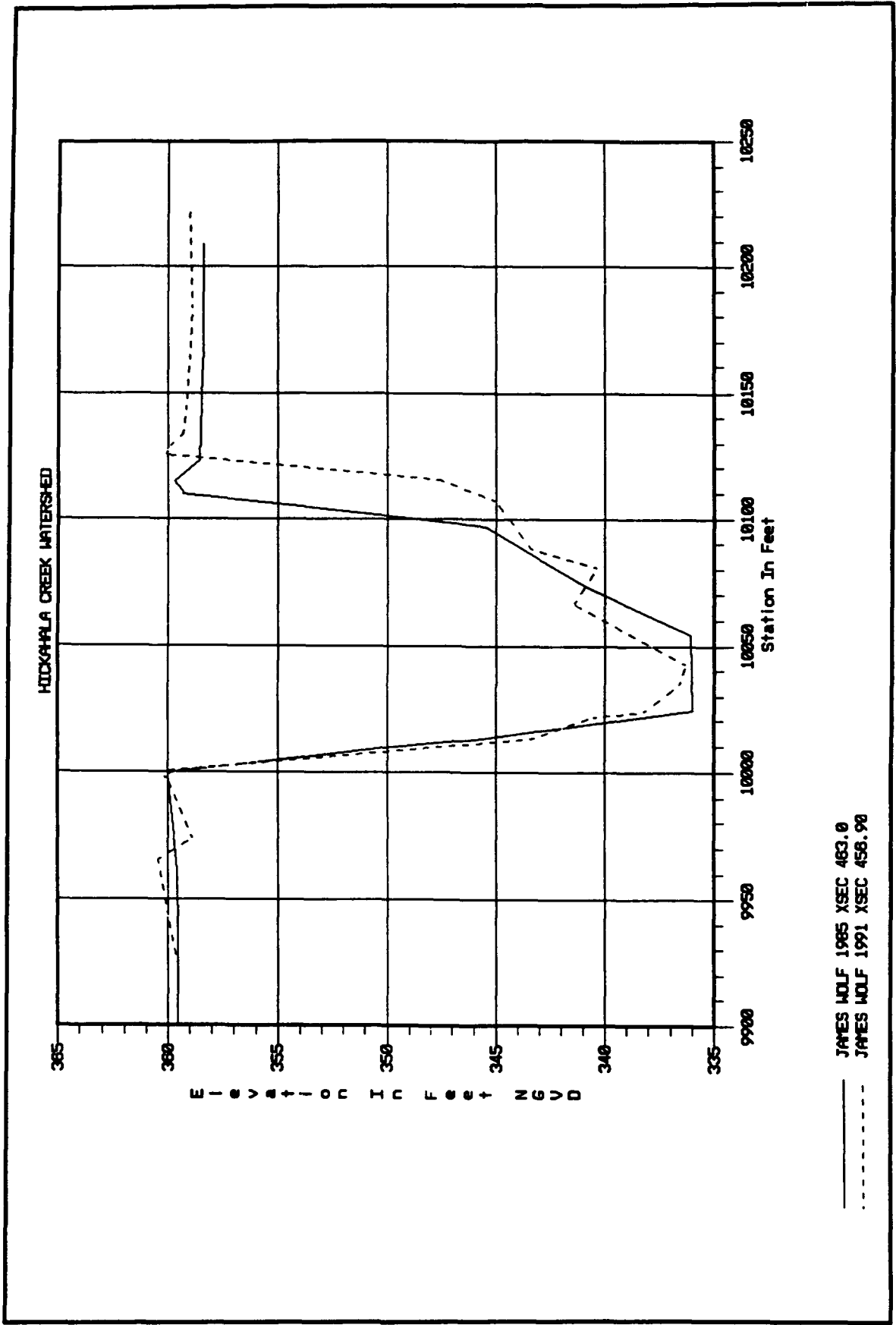
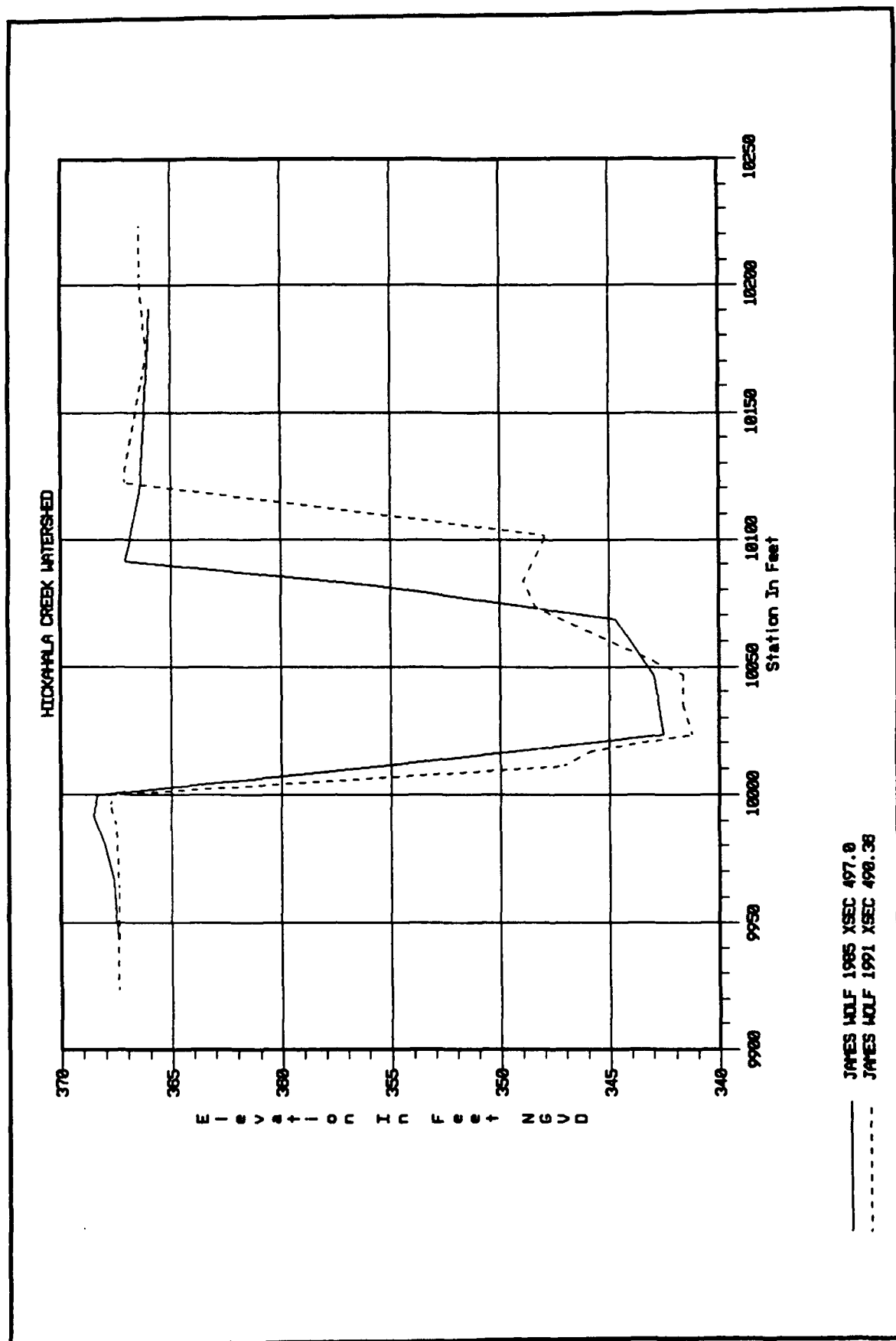
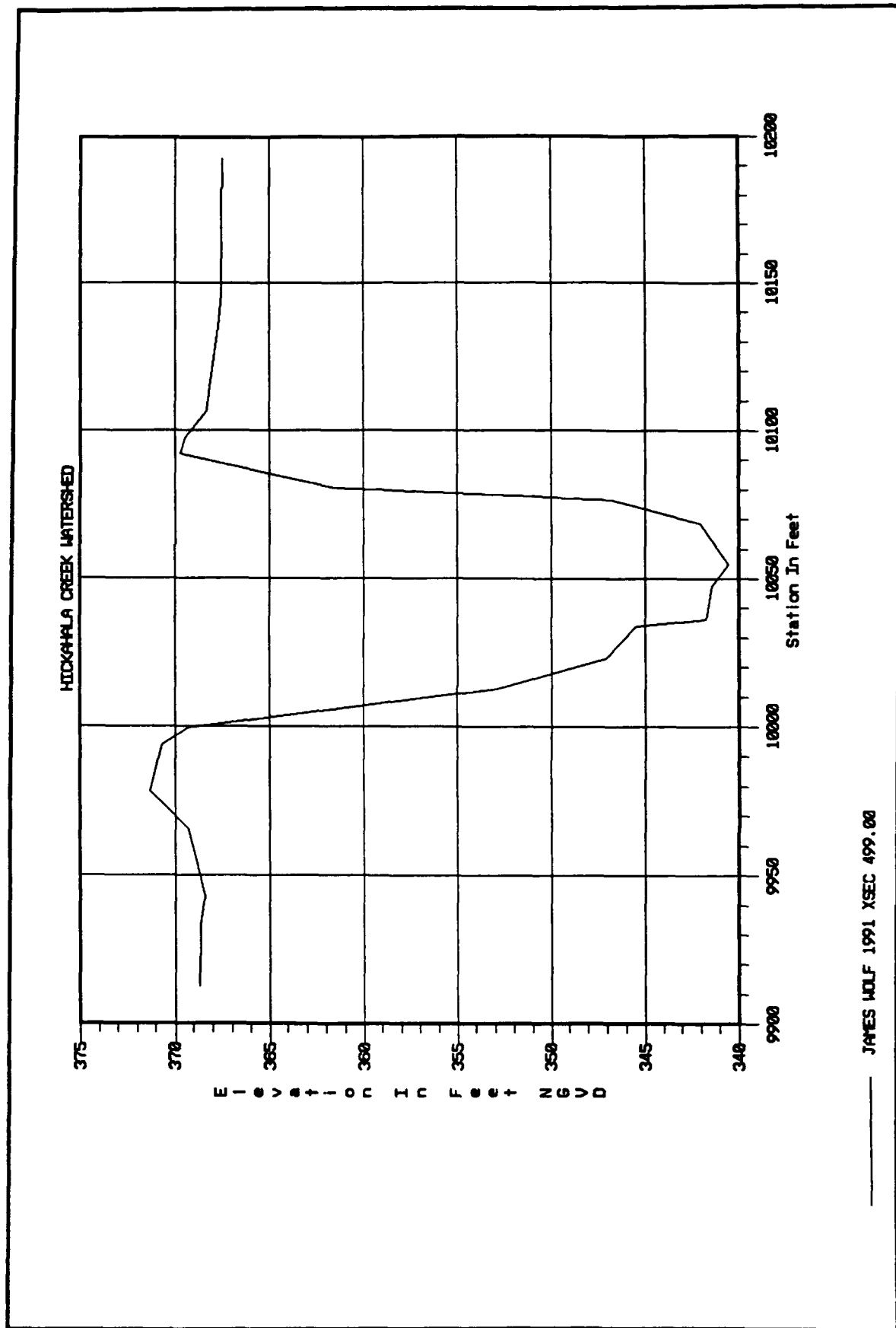
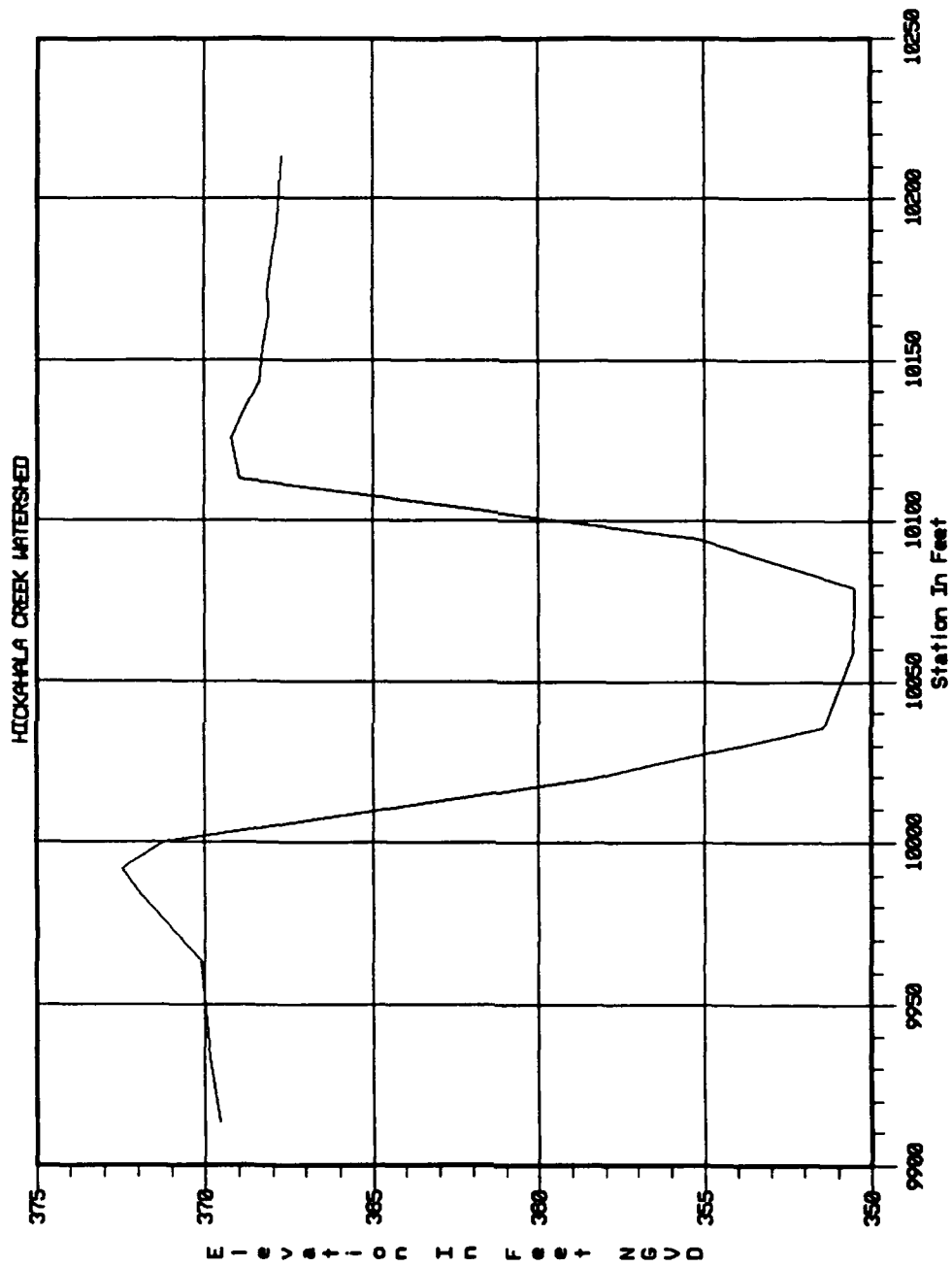


PLATE A68







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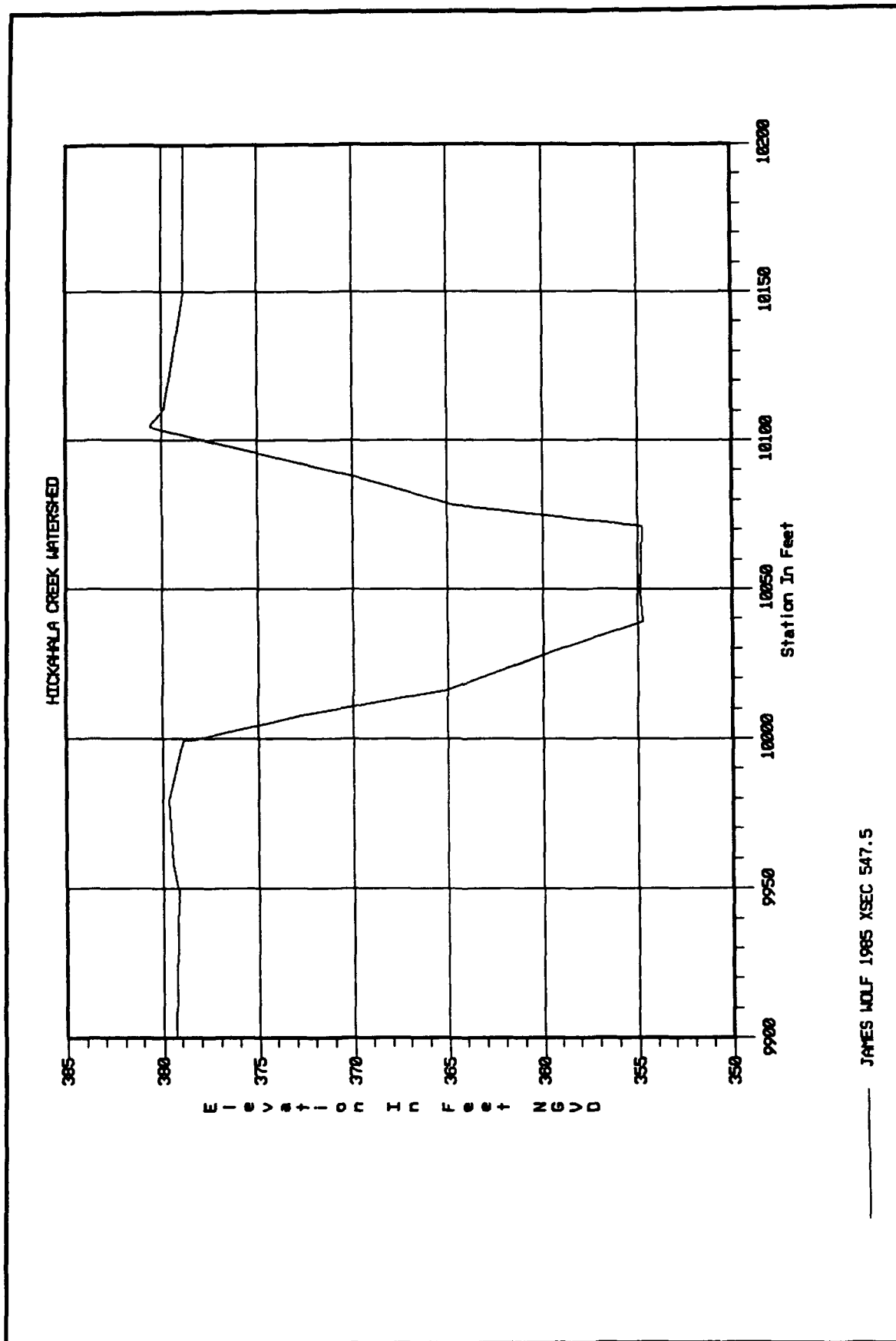


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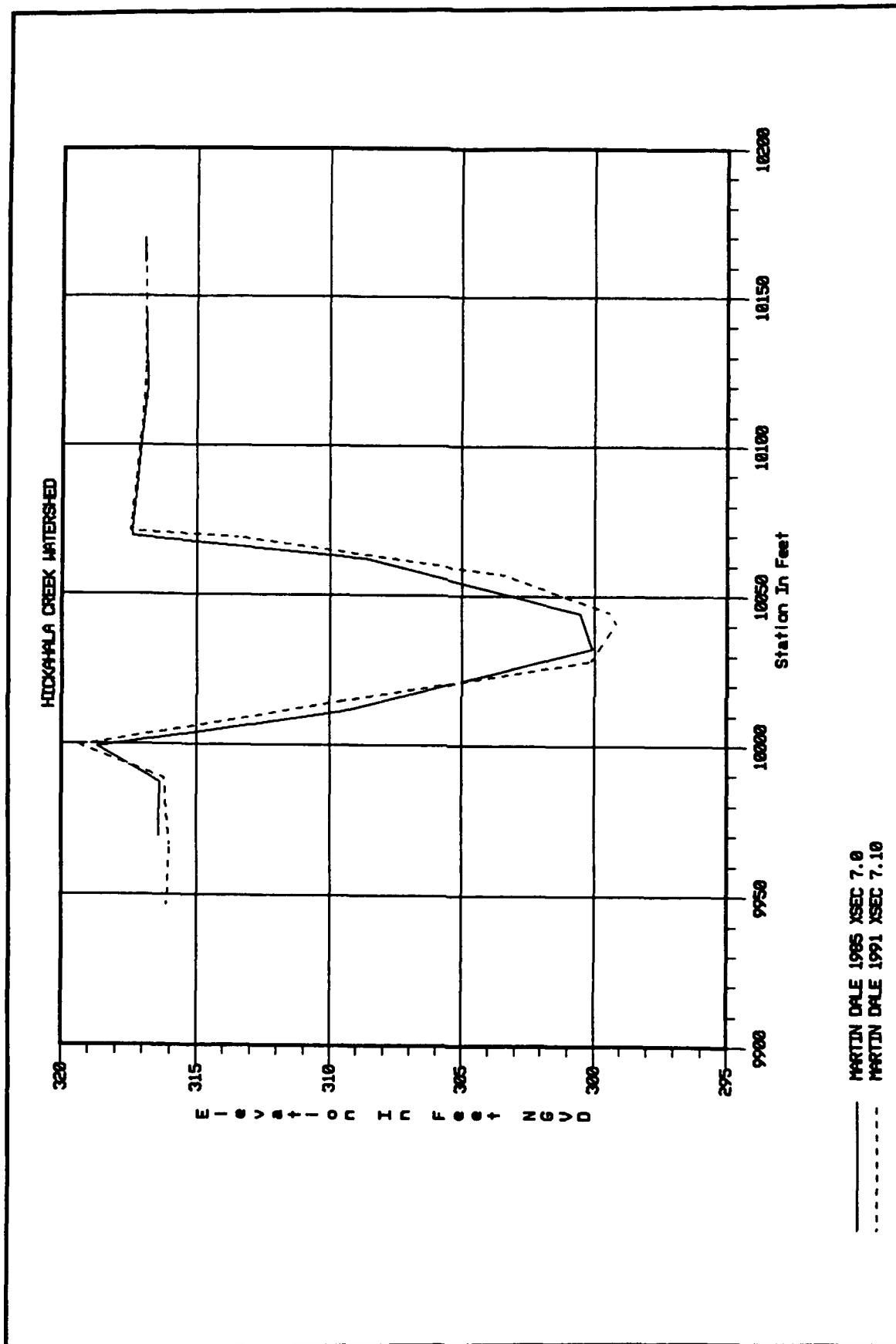


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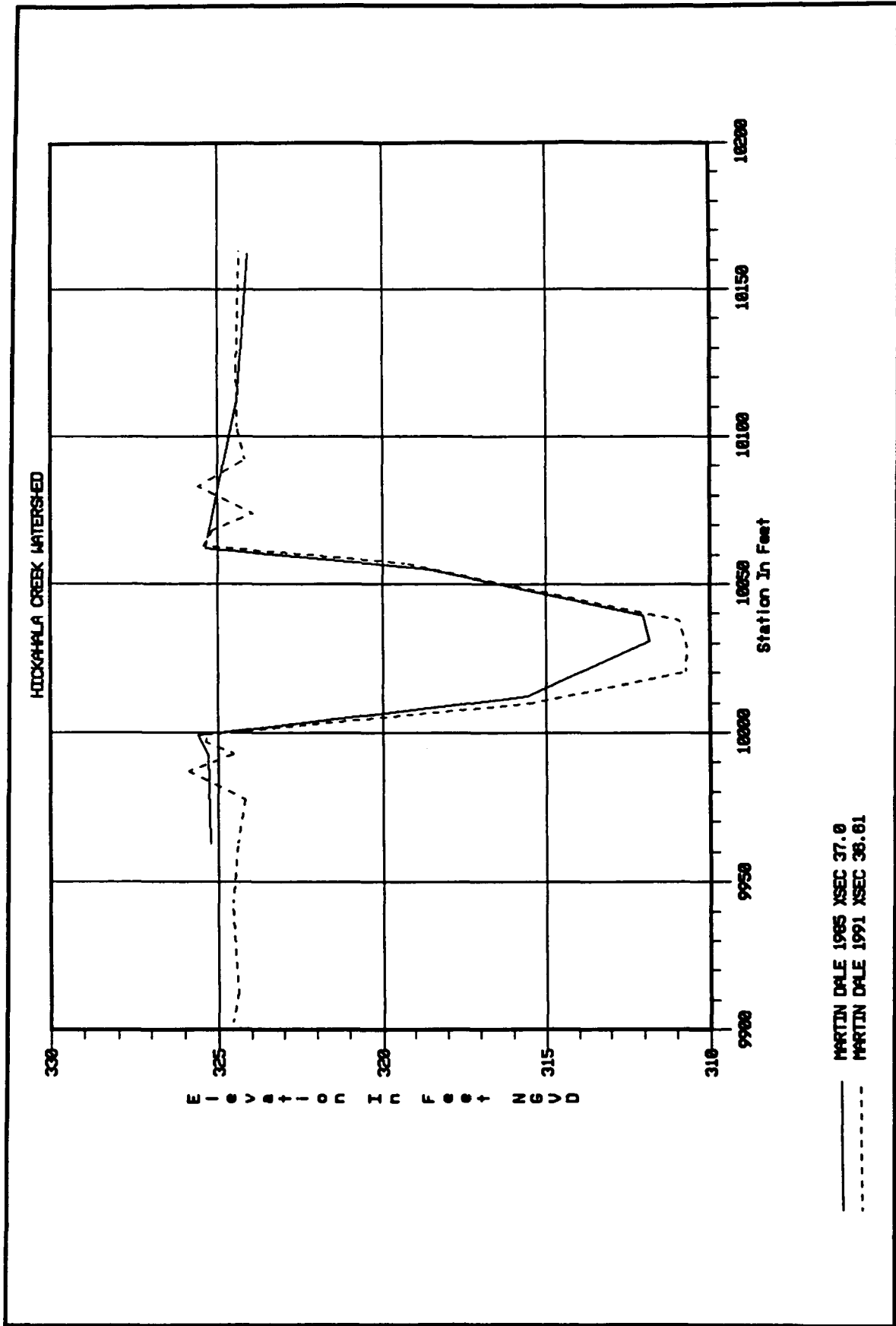
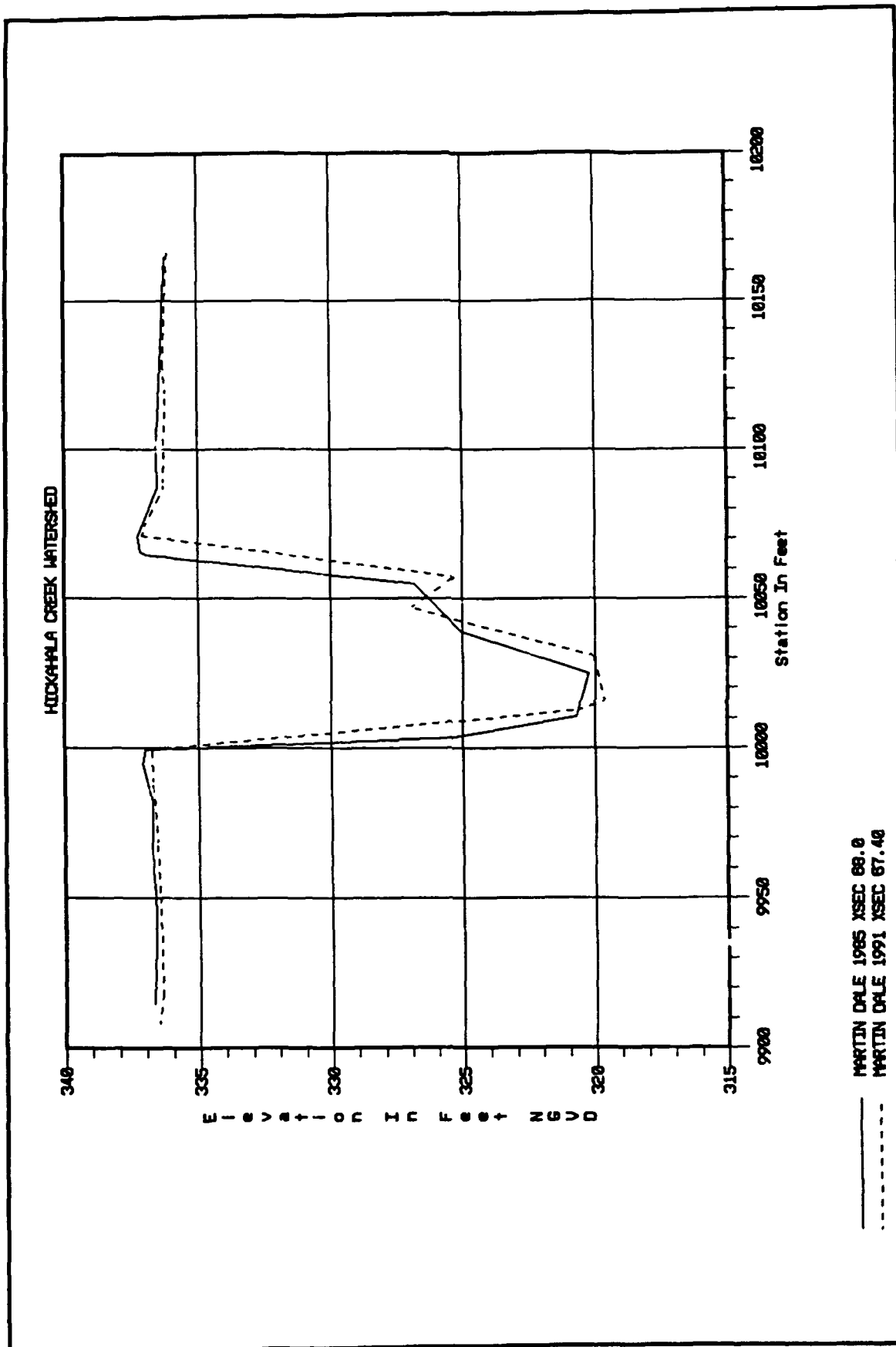


PLATE A74



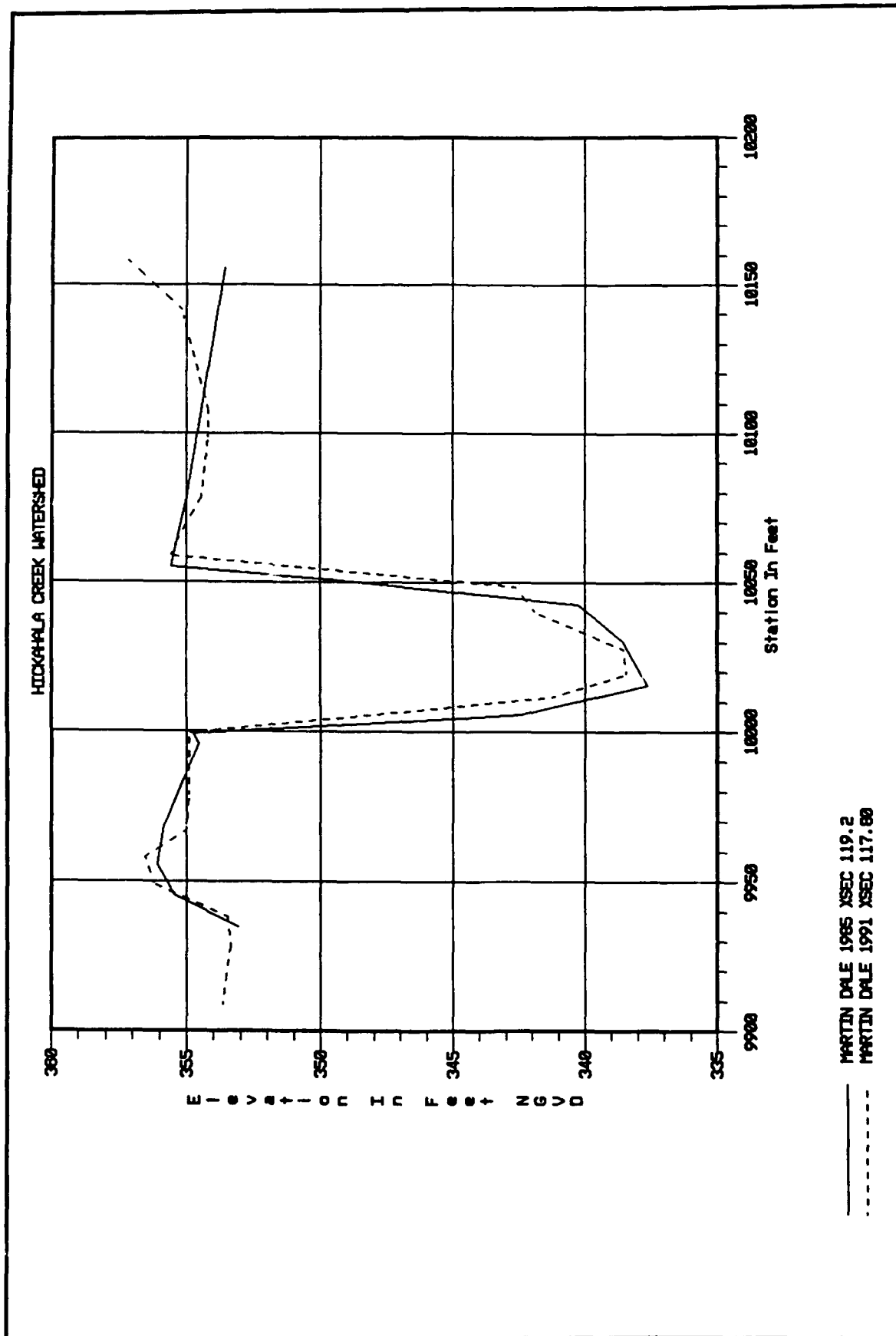


PLATE A76

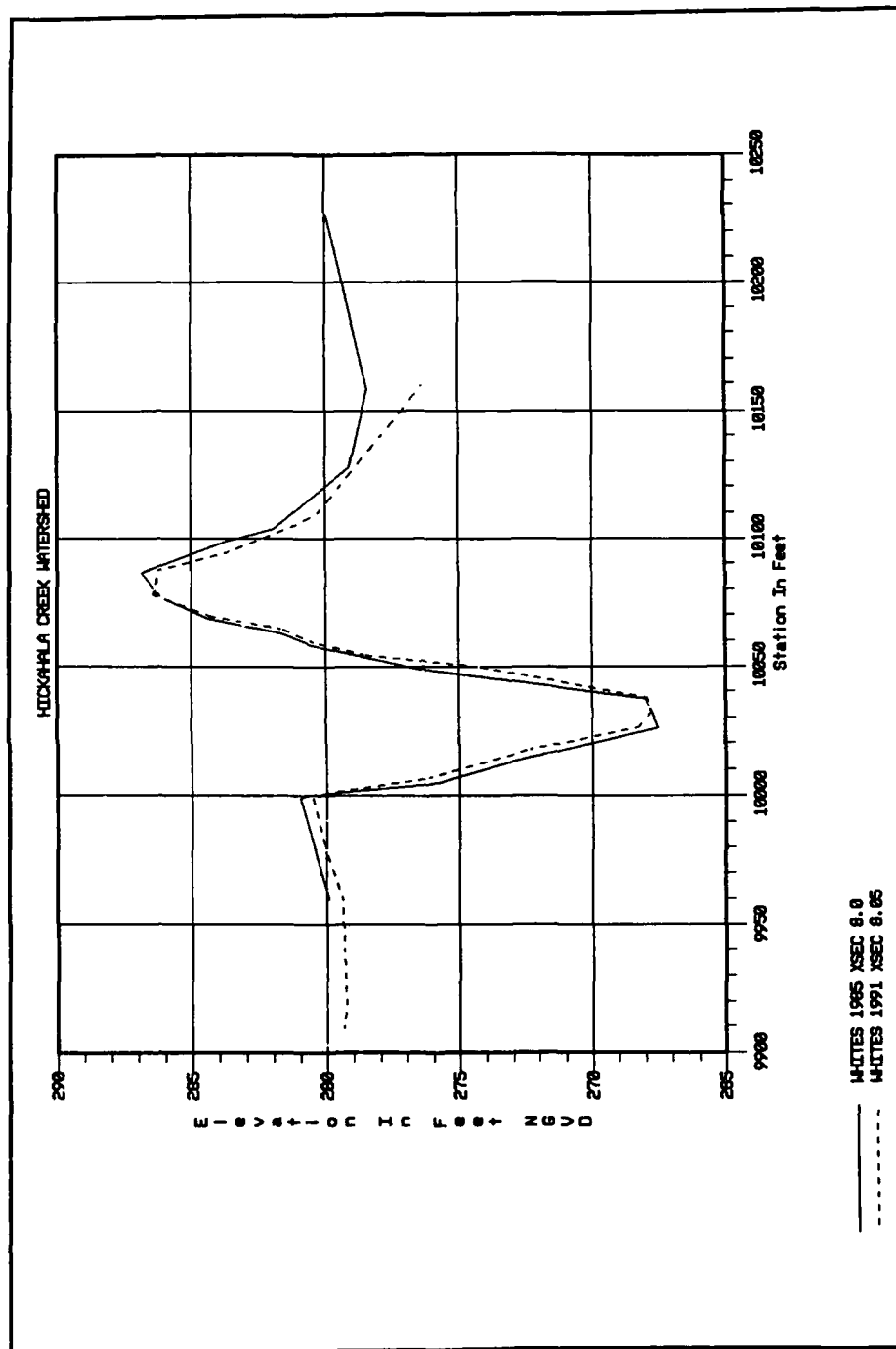


PLATE A77

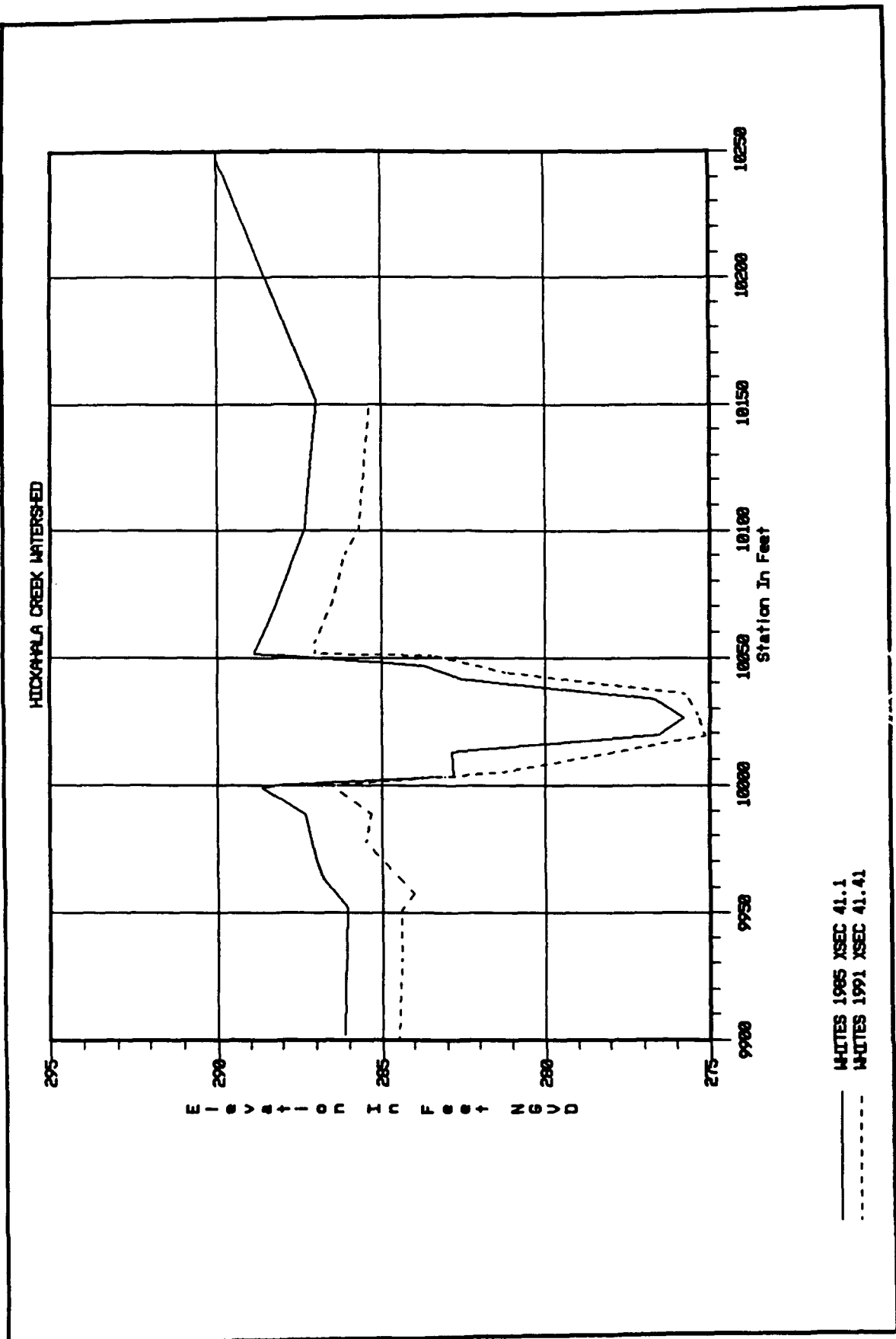
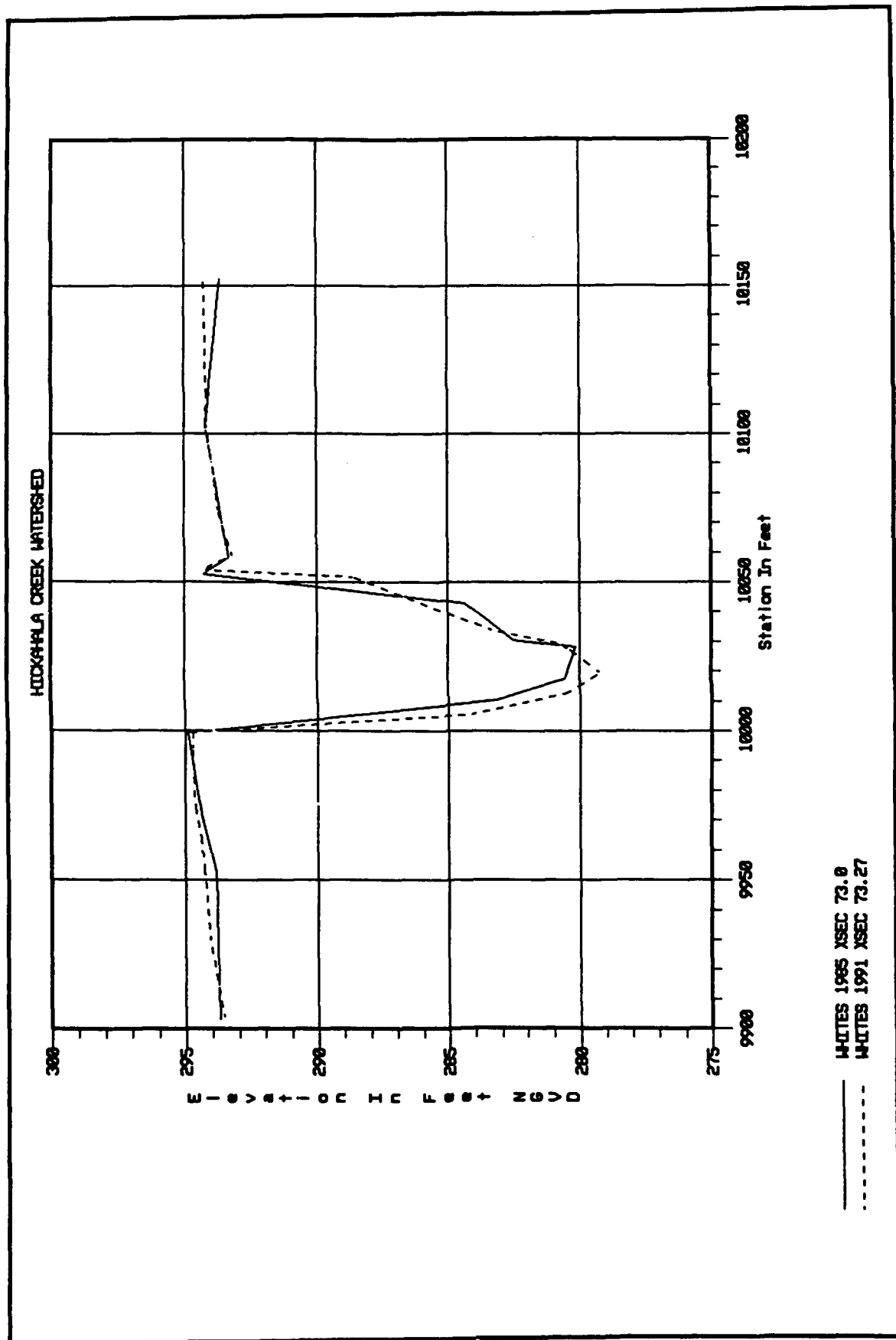


PLATE A78



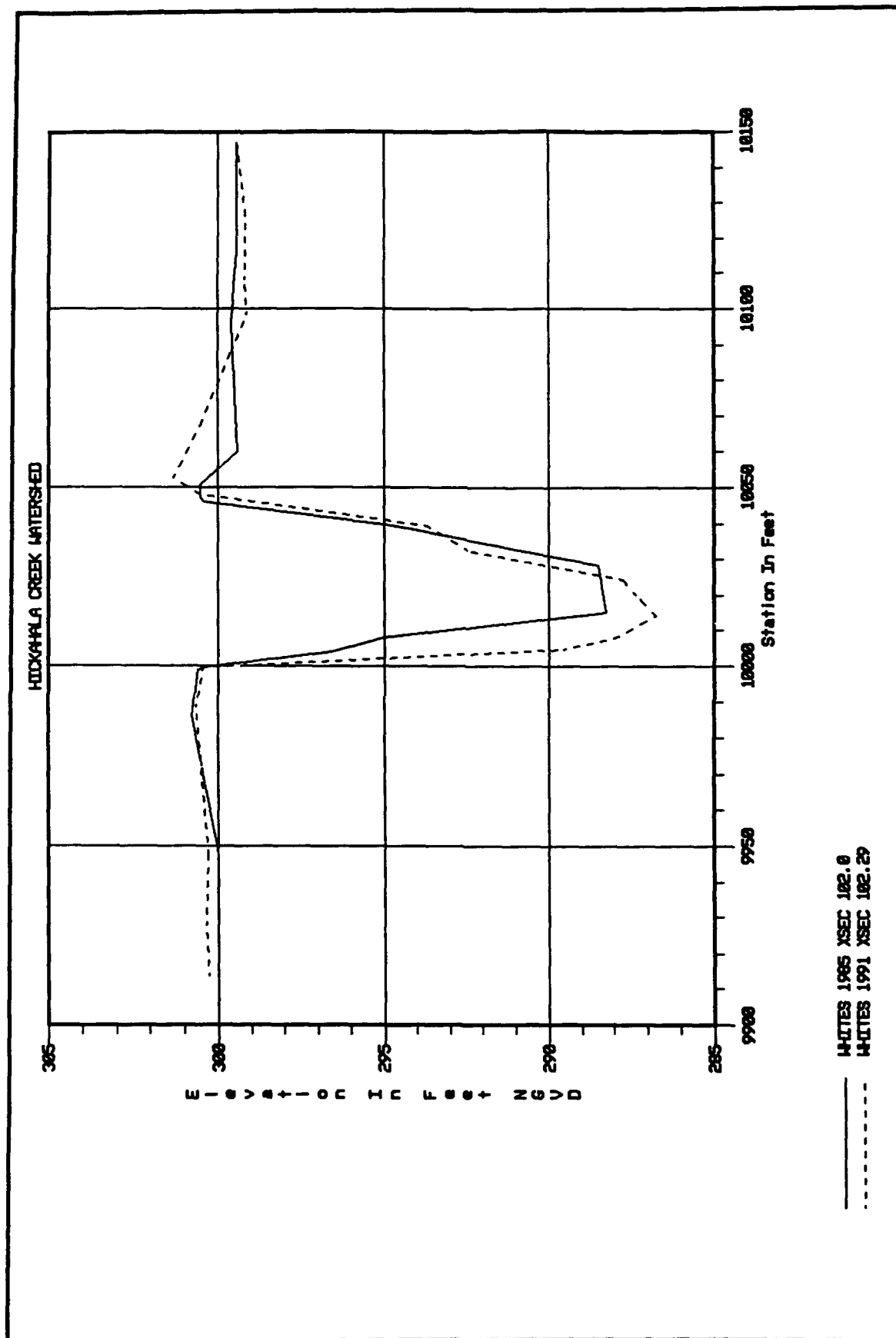
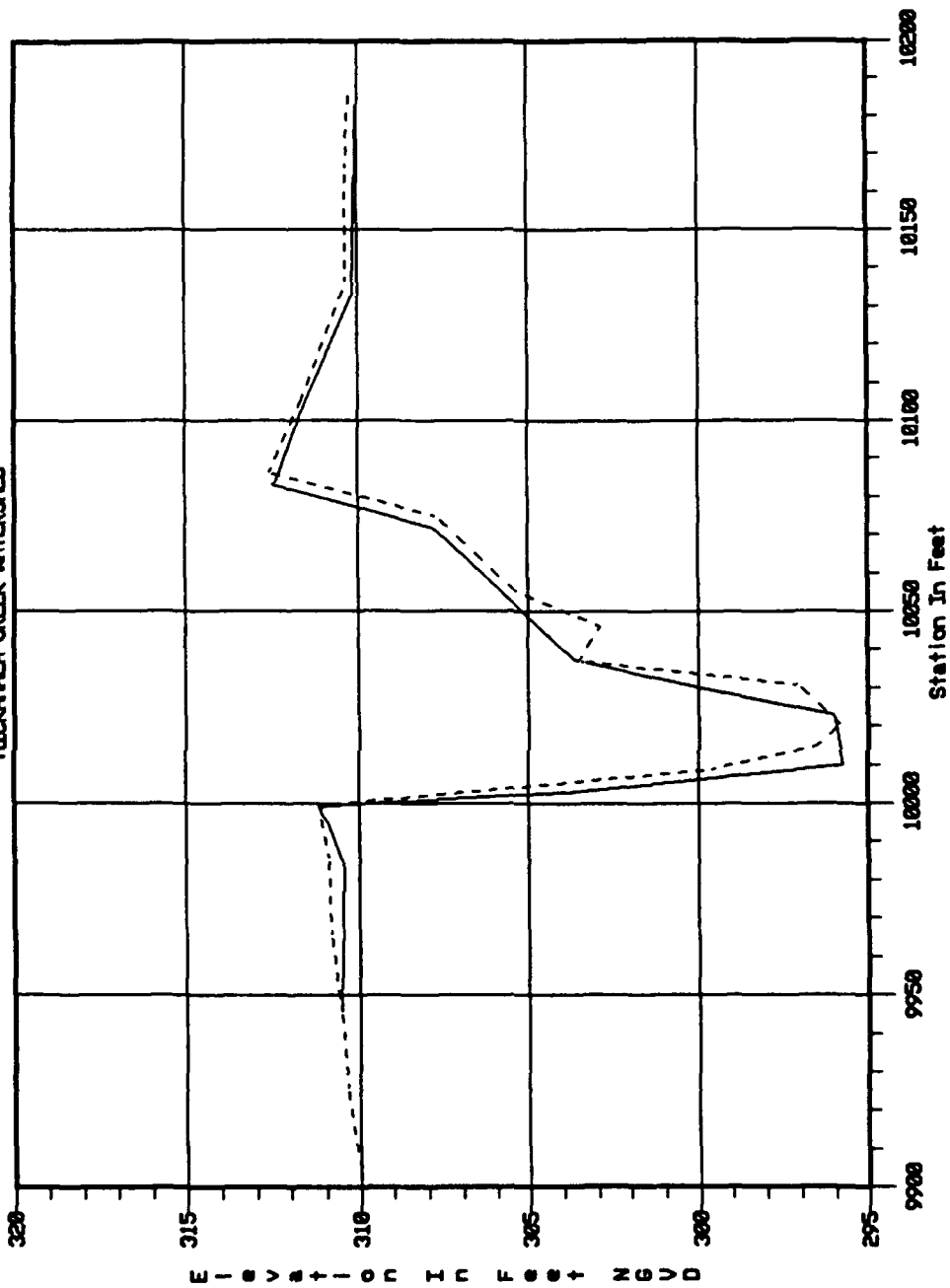
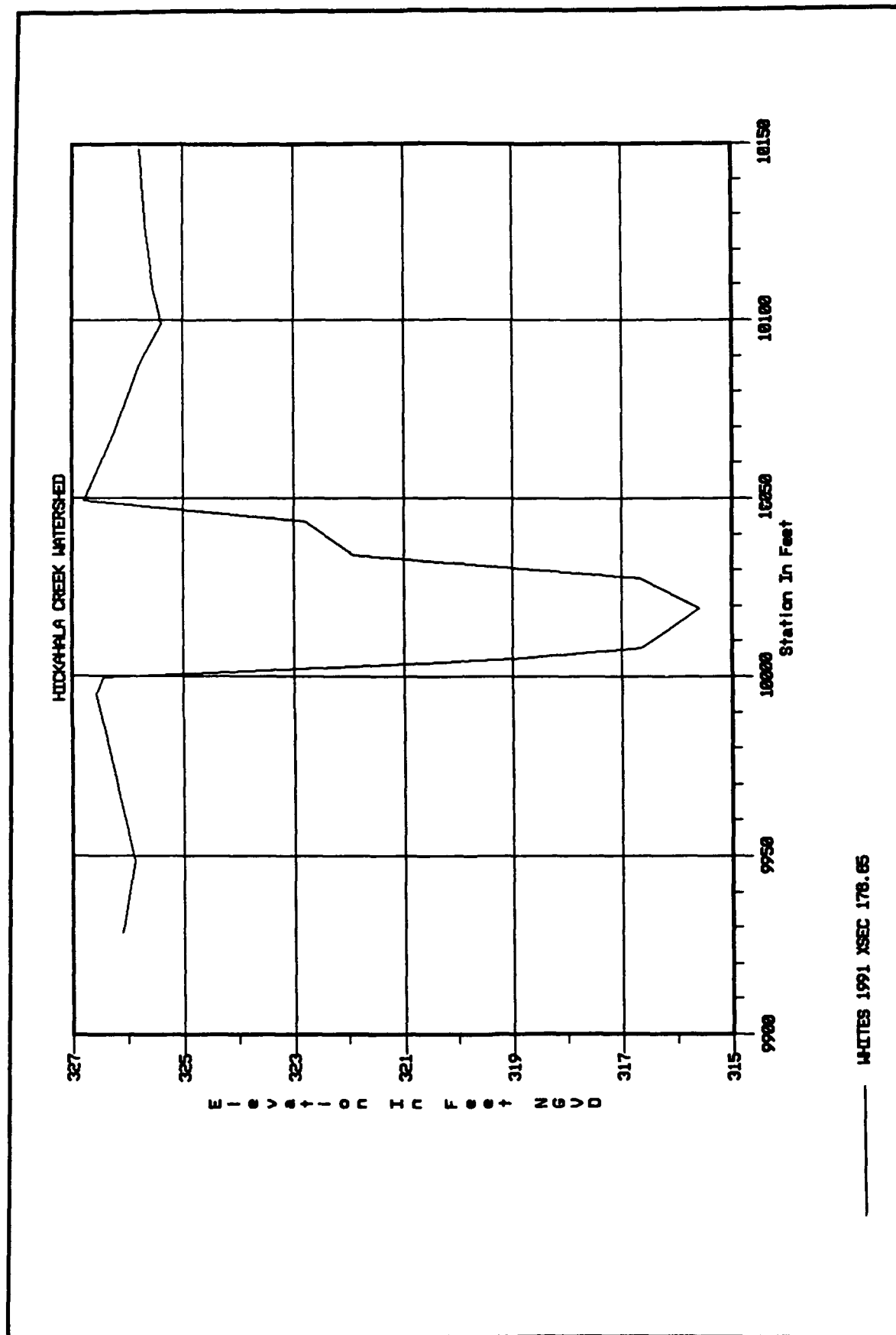


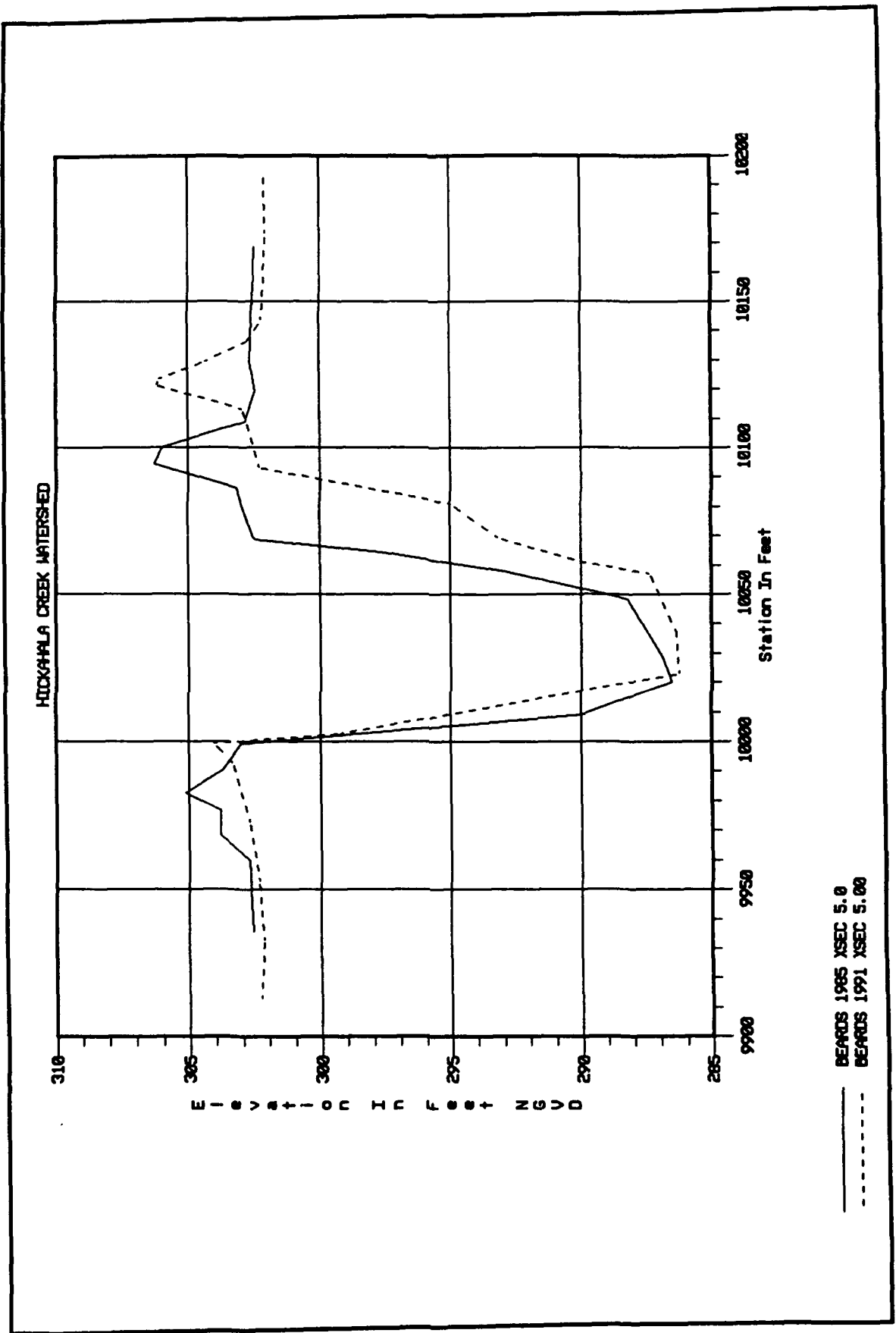
PLATE A80

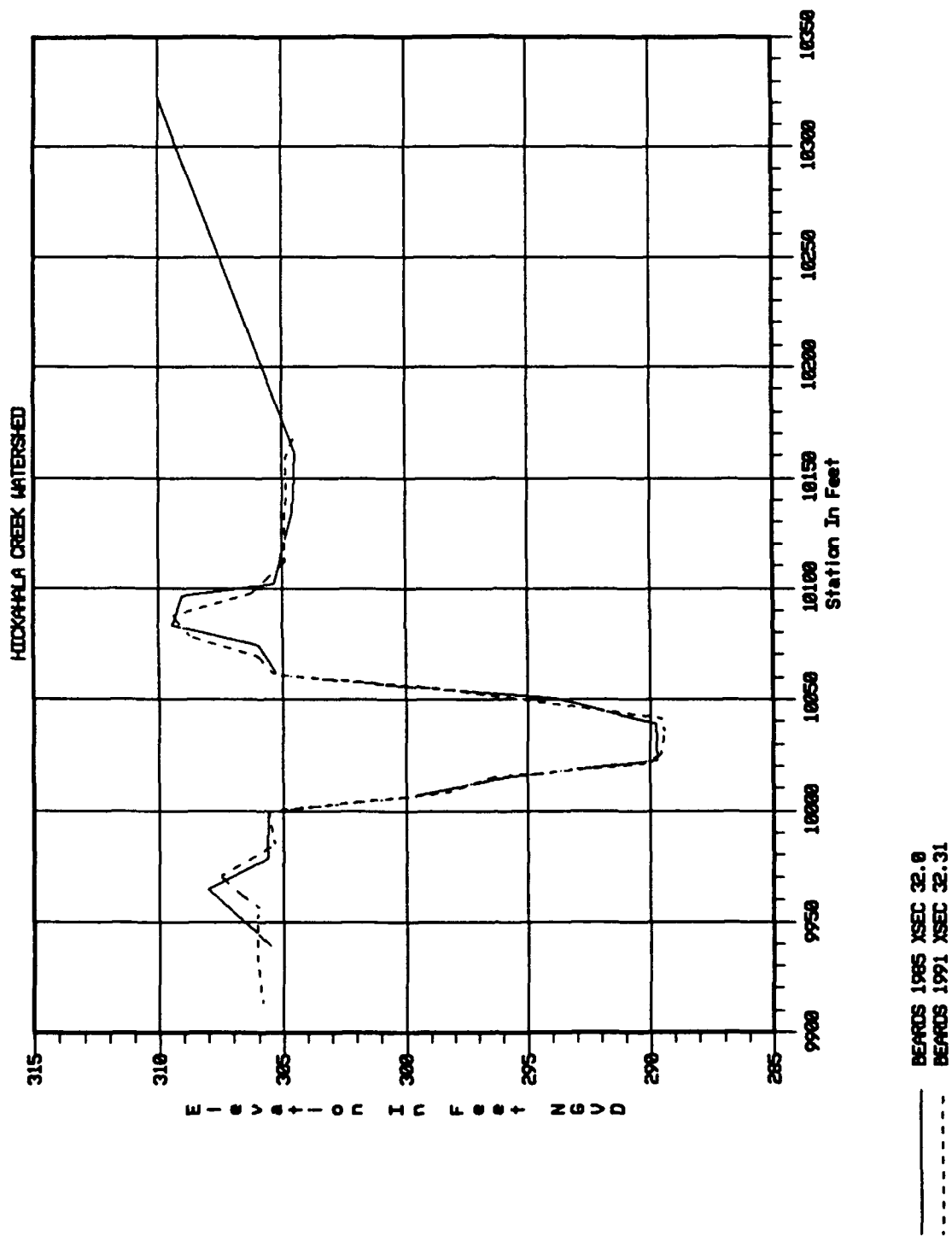
HICKAHALA CREEK WATERSHED



— HMTES 1985 XSEC 135.0
 - - - HMTES 1991 XSEC 135.18







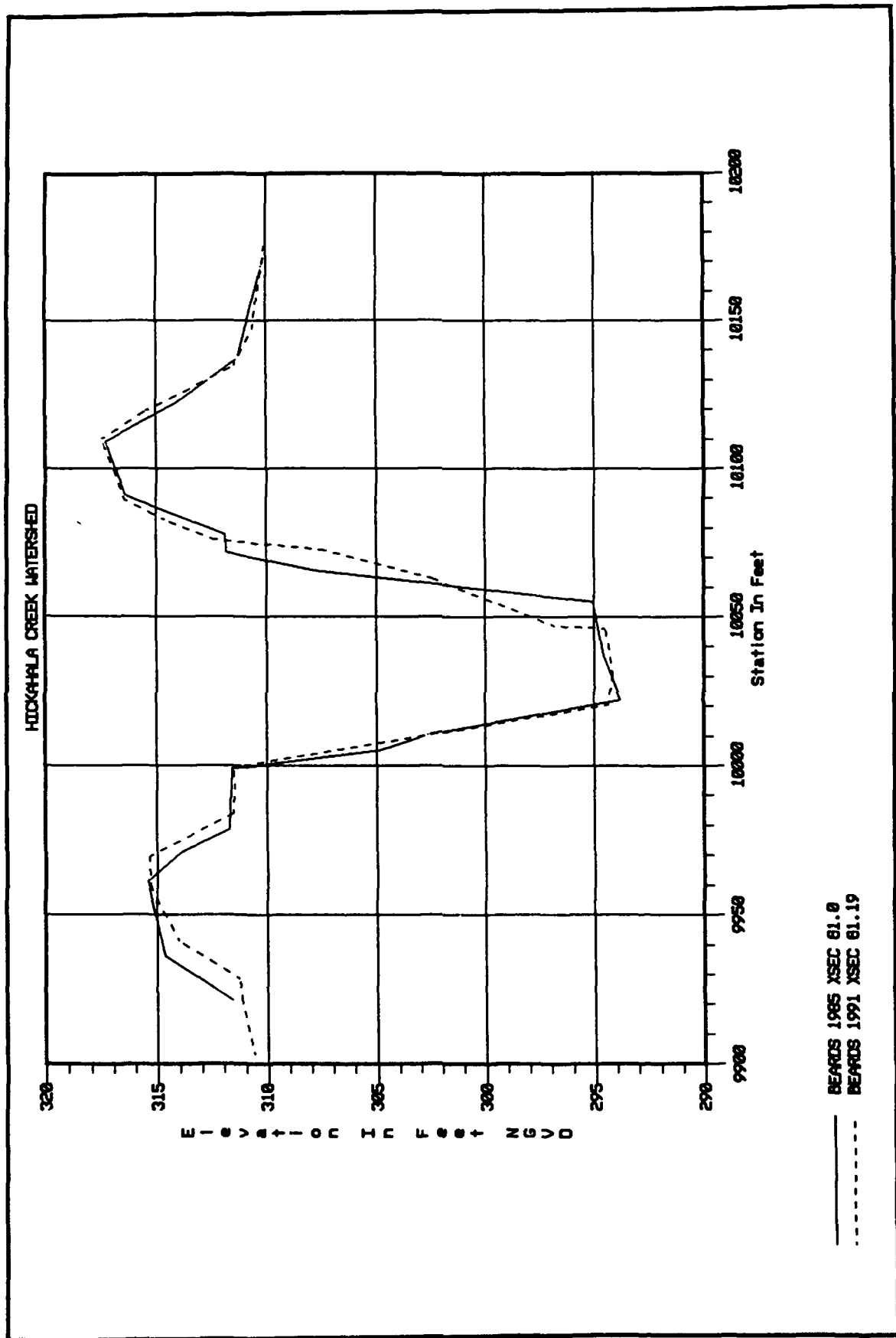
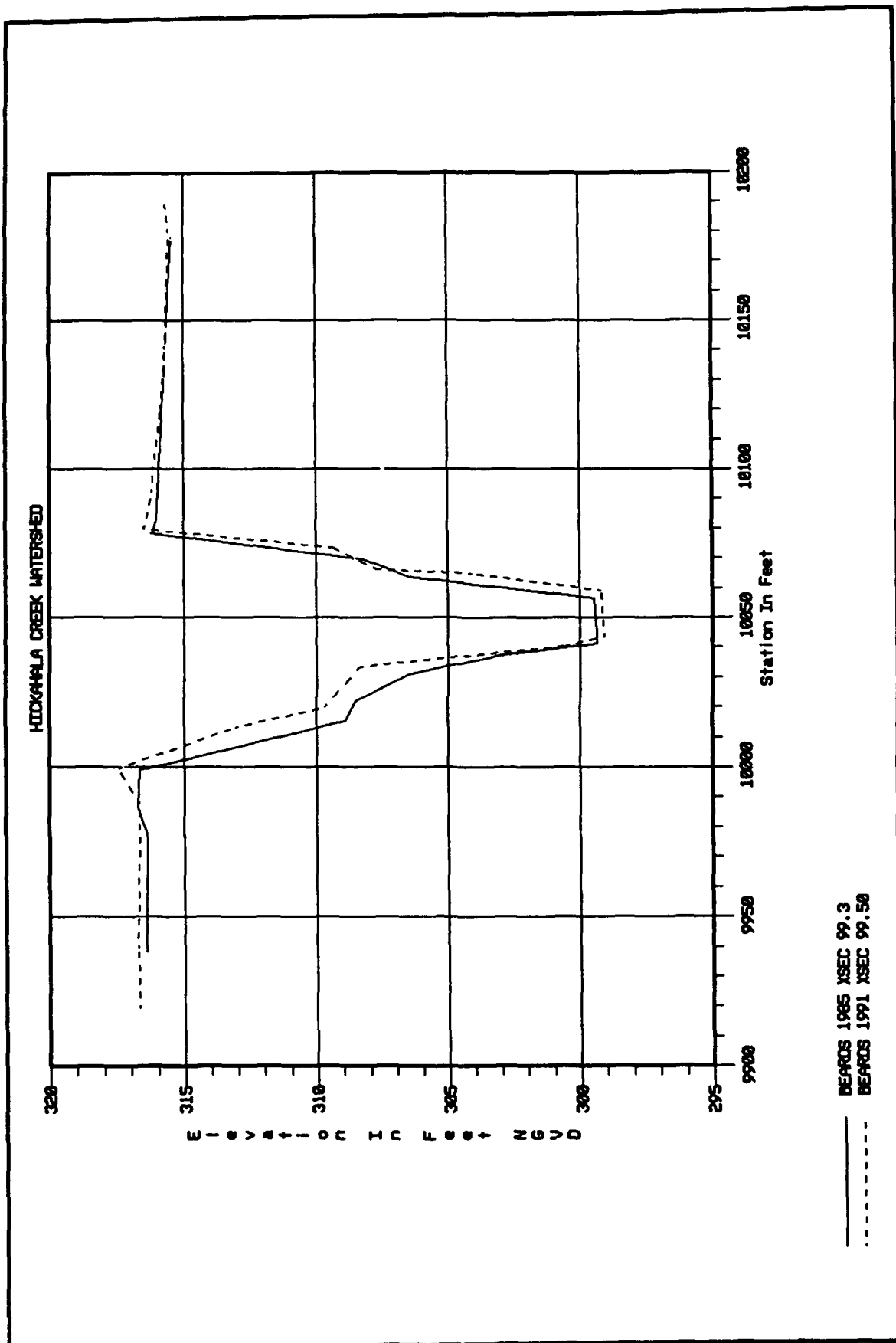
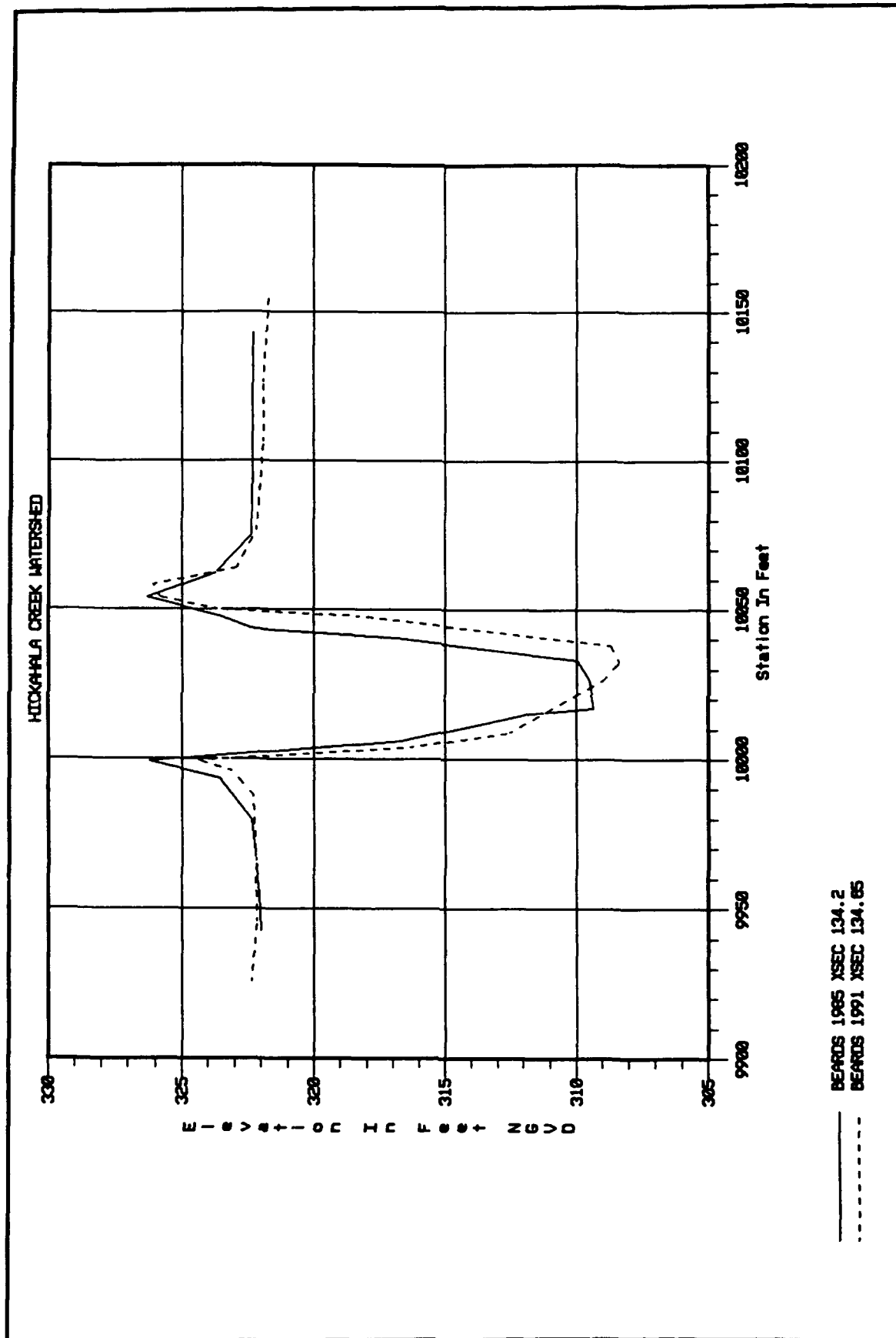


PLATE A86





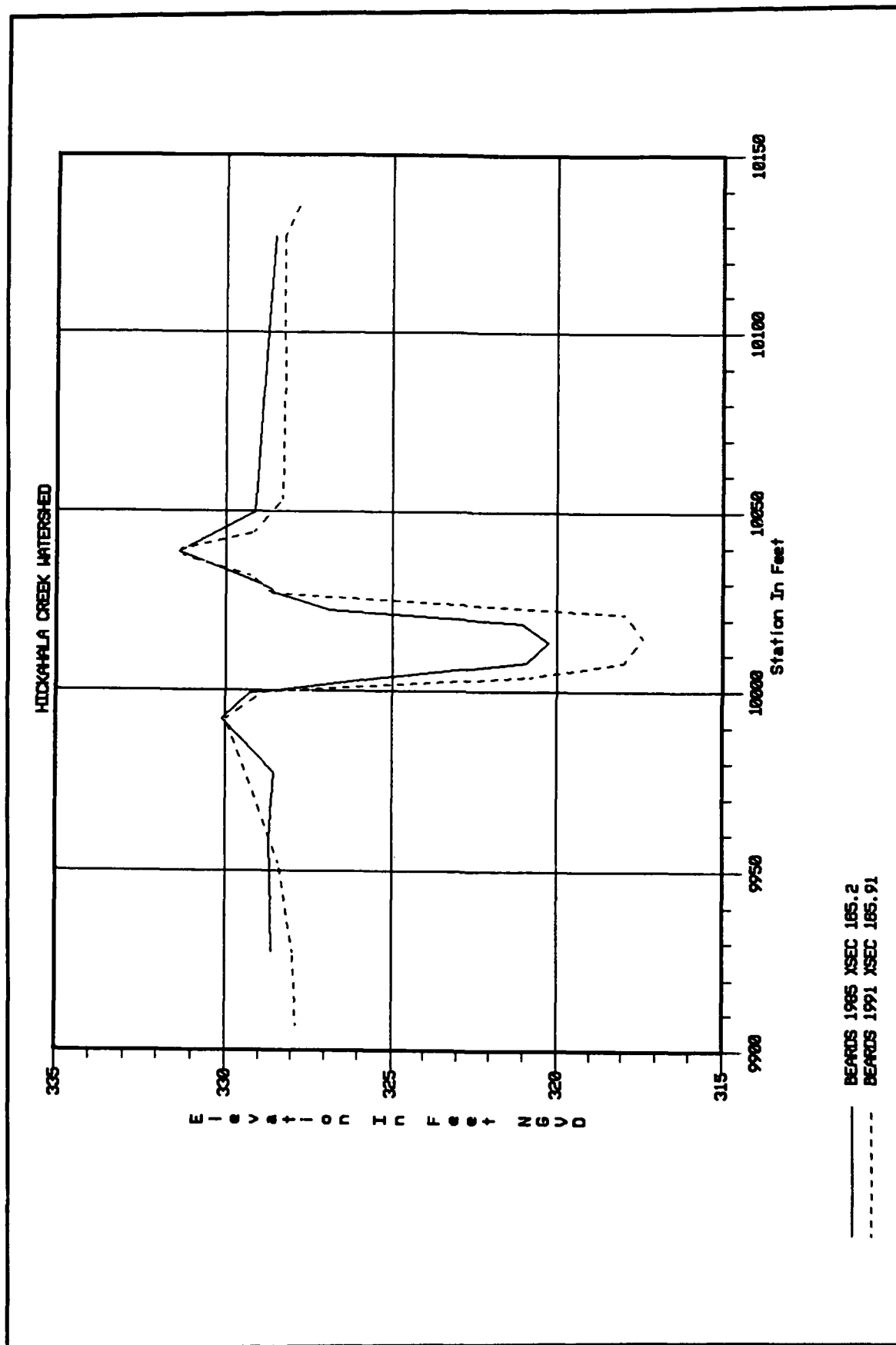
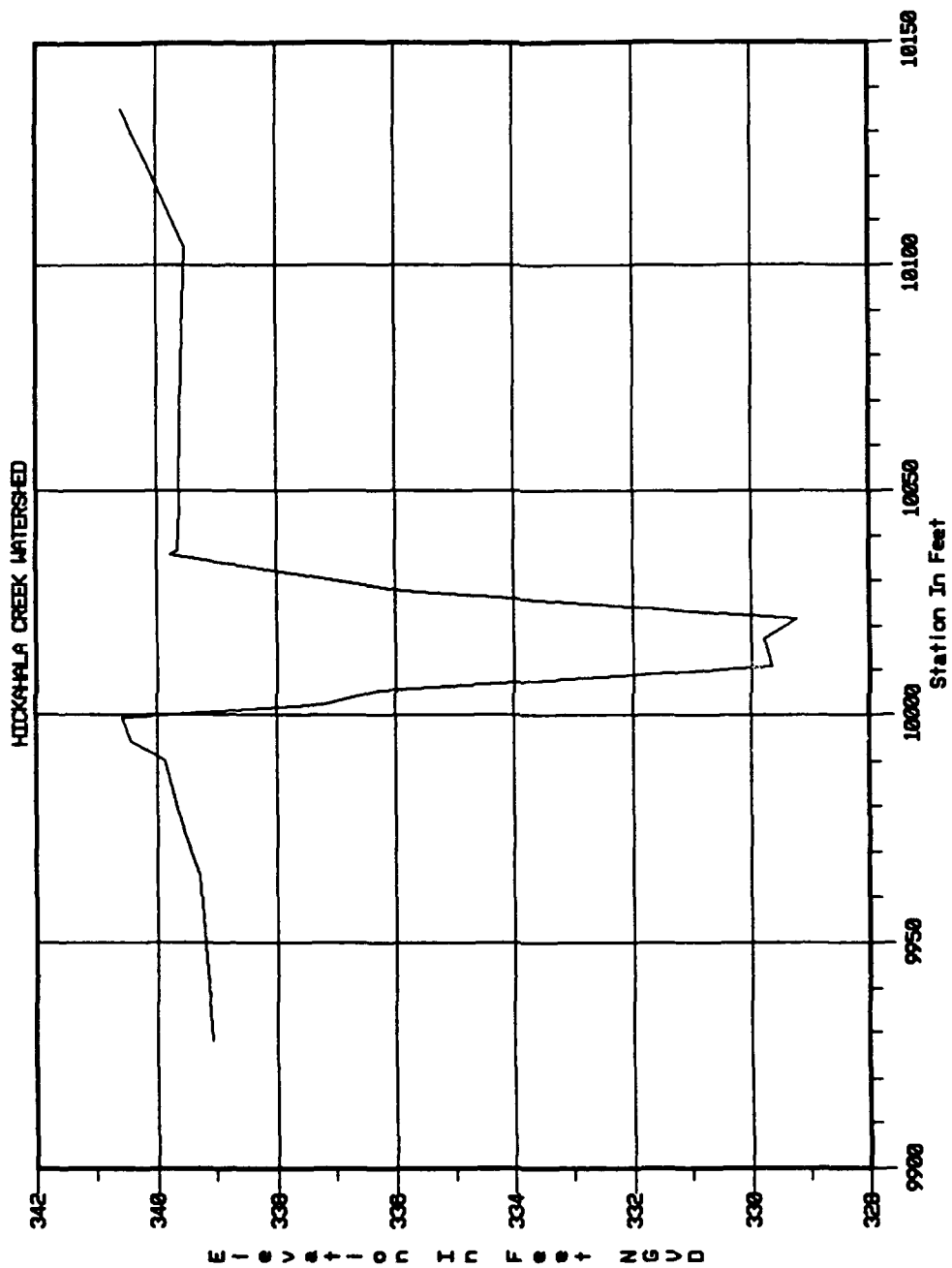


PLATE A88



BEARDS 1985 XSEC 208.5

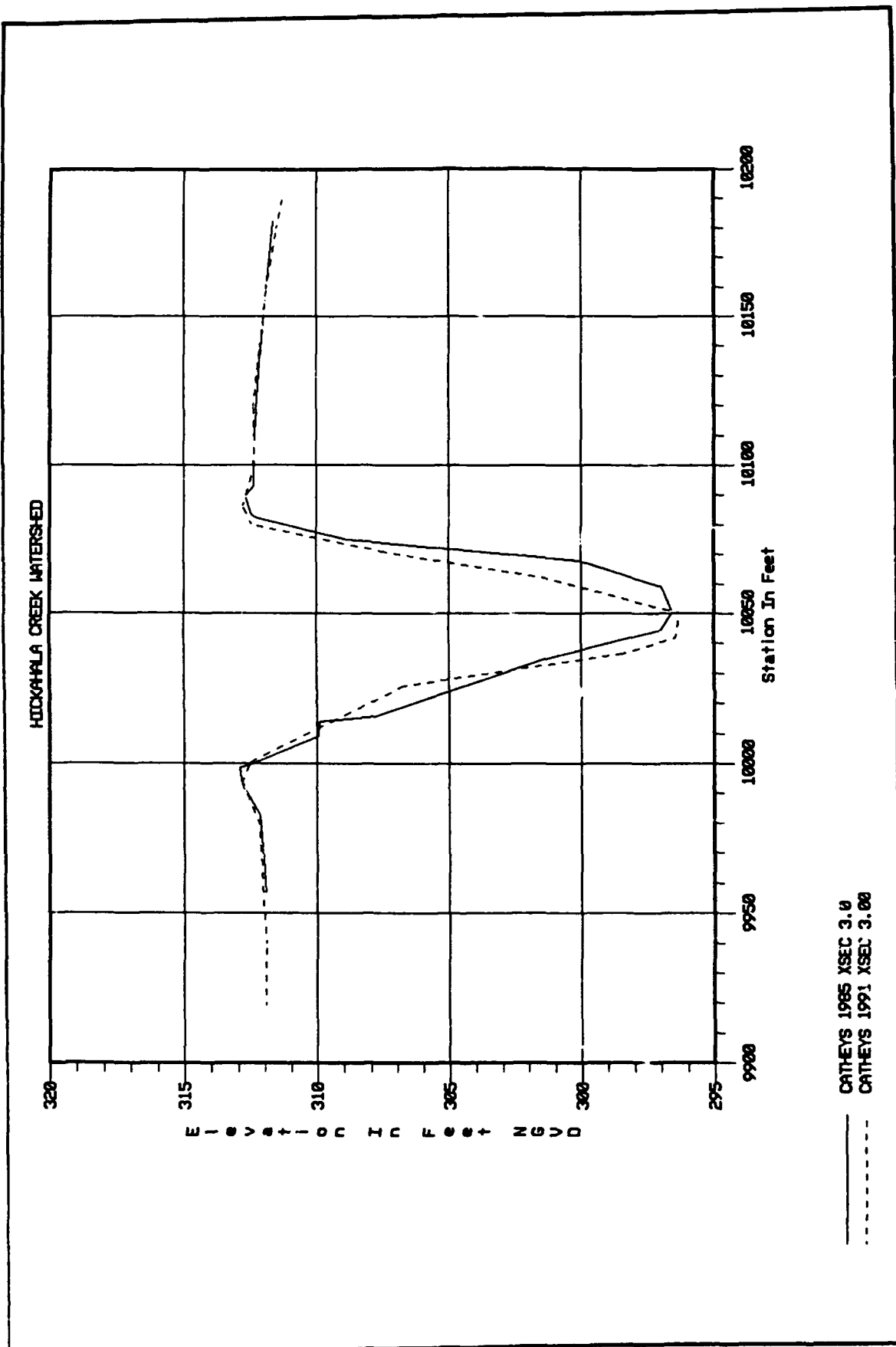
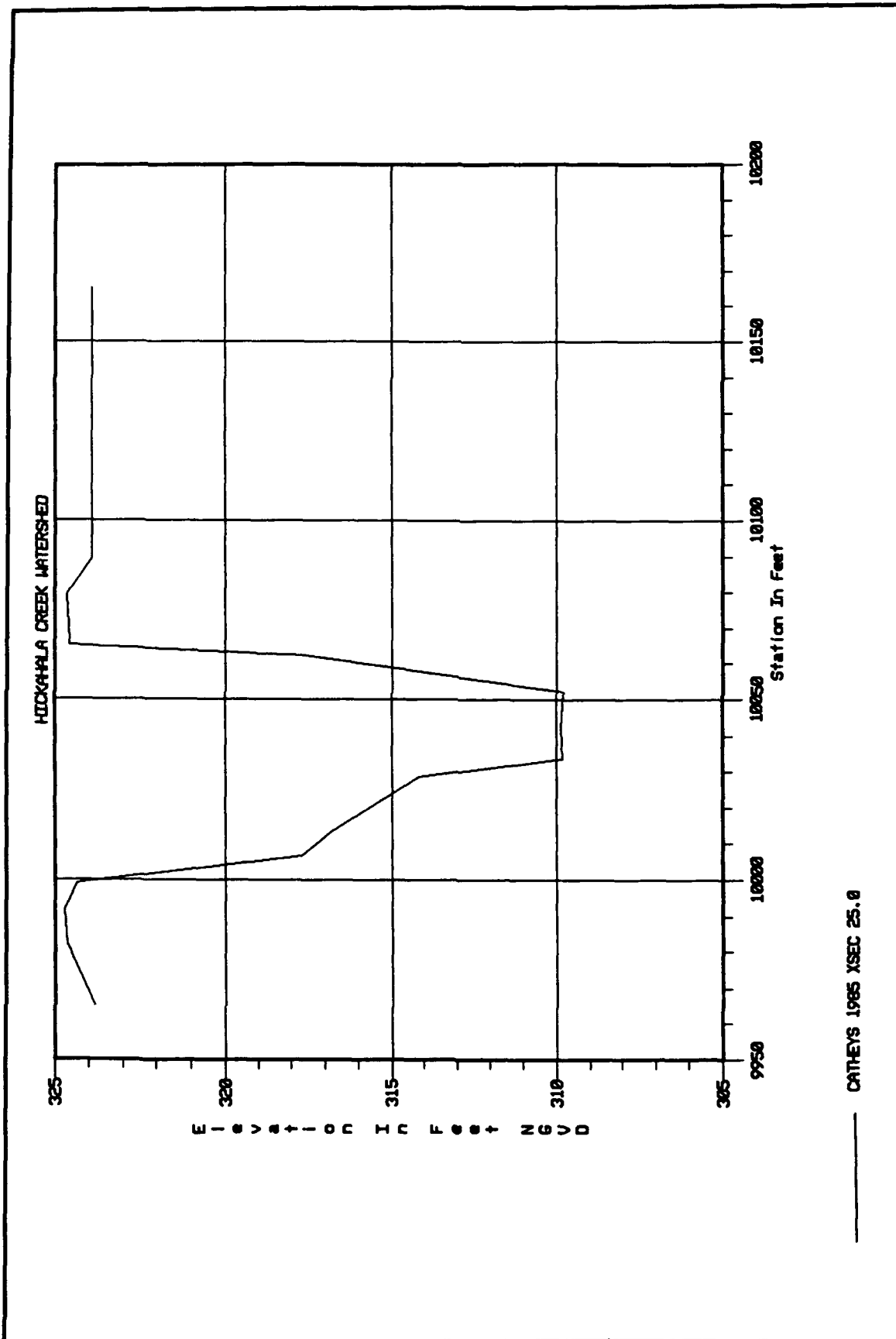


PLATE A90



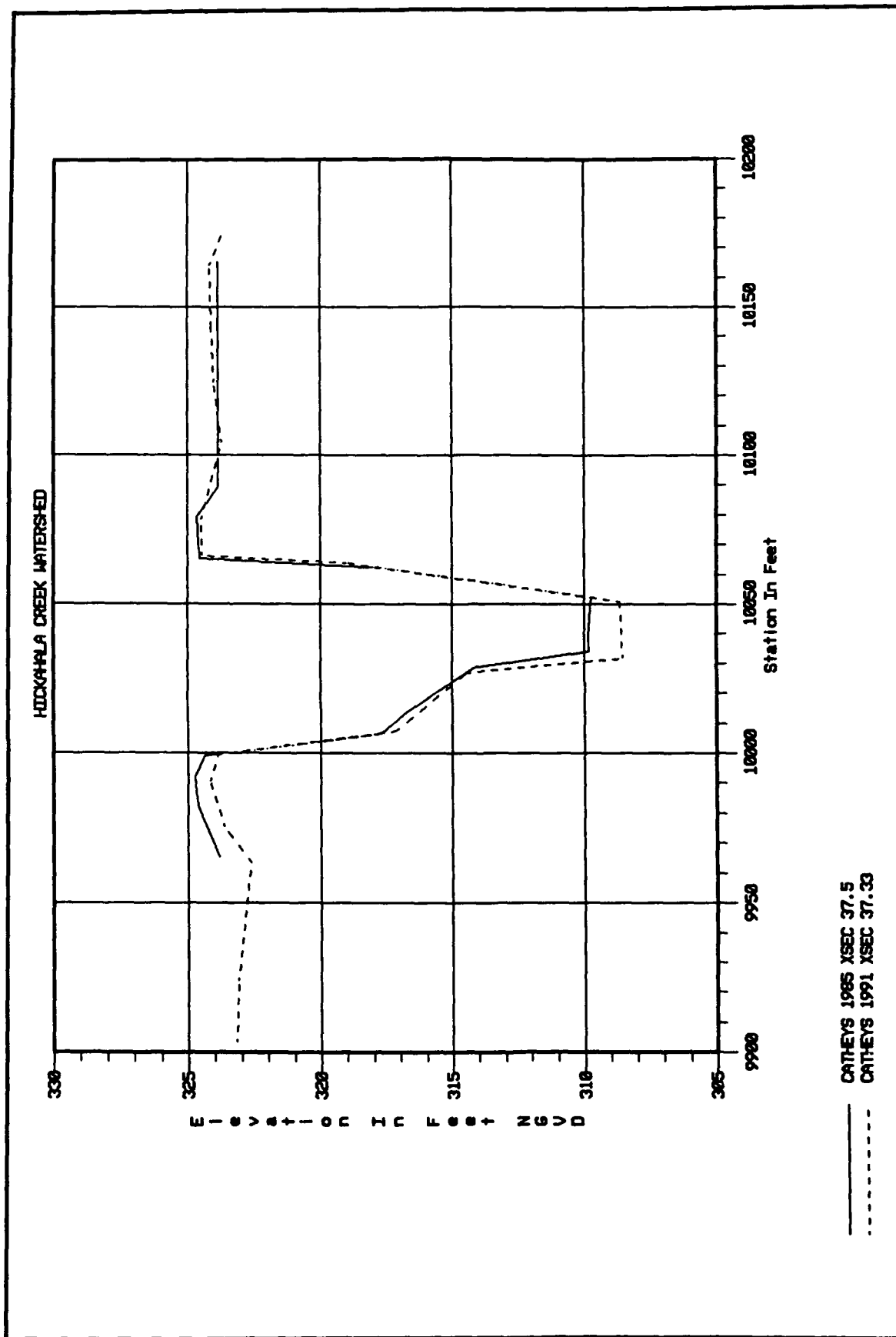
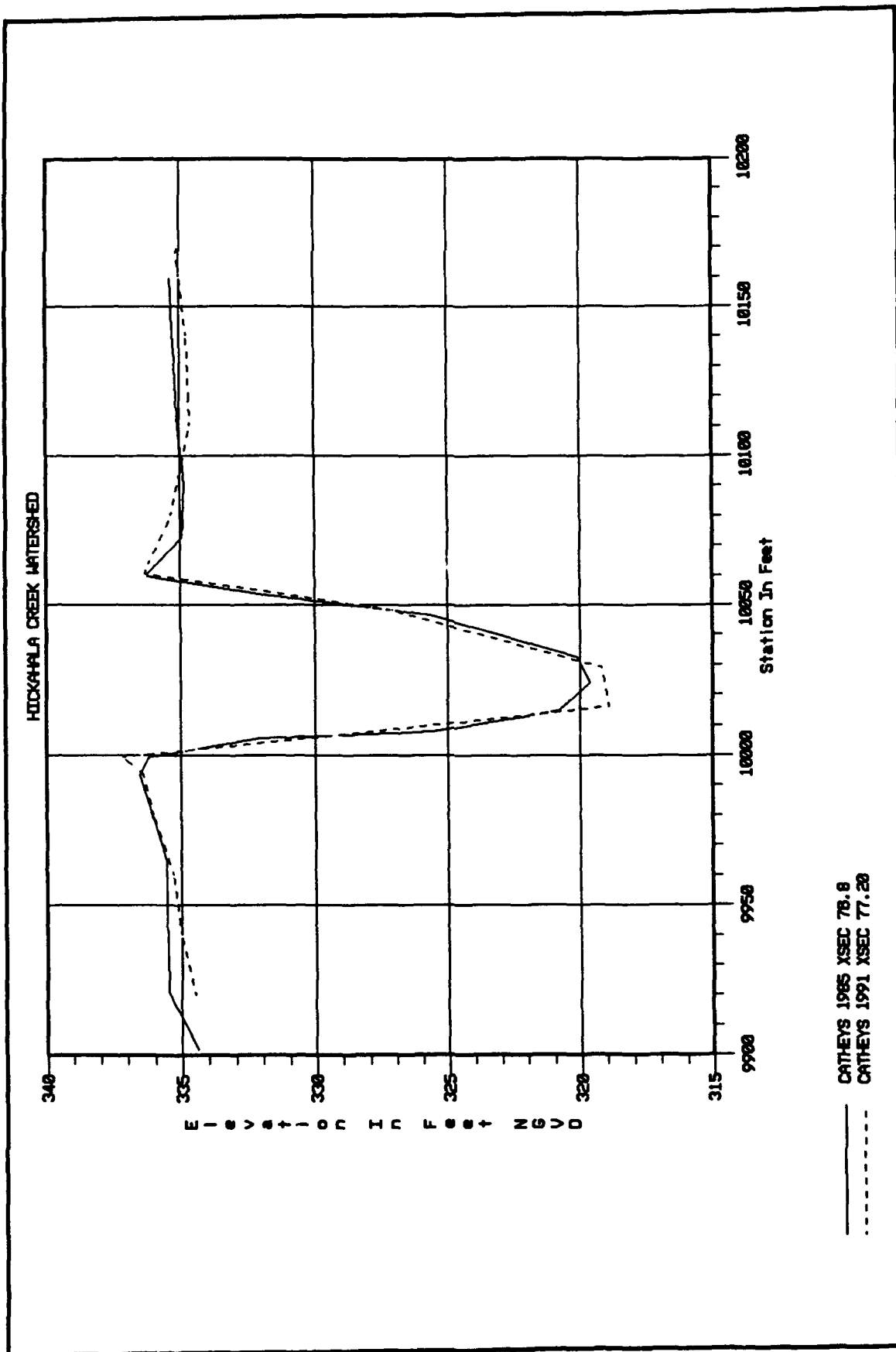
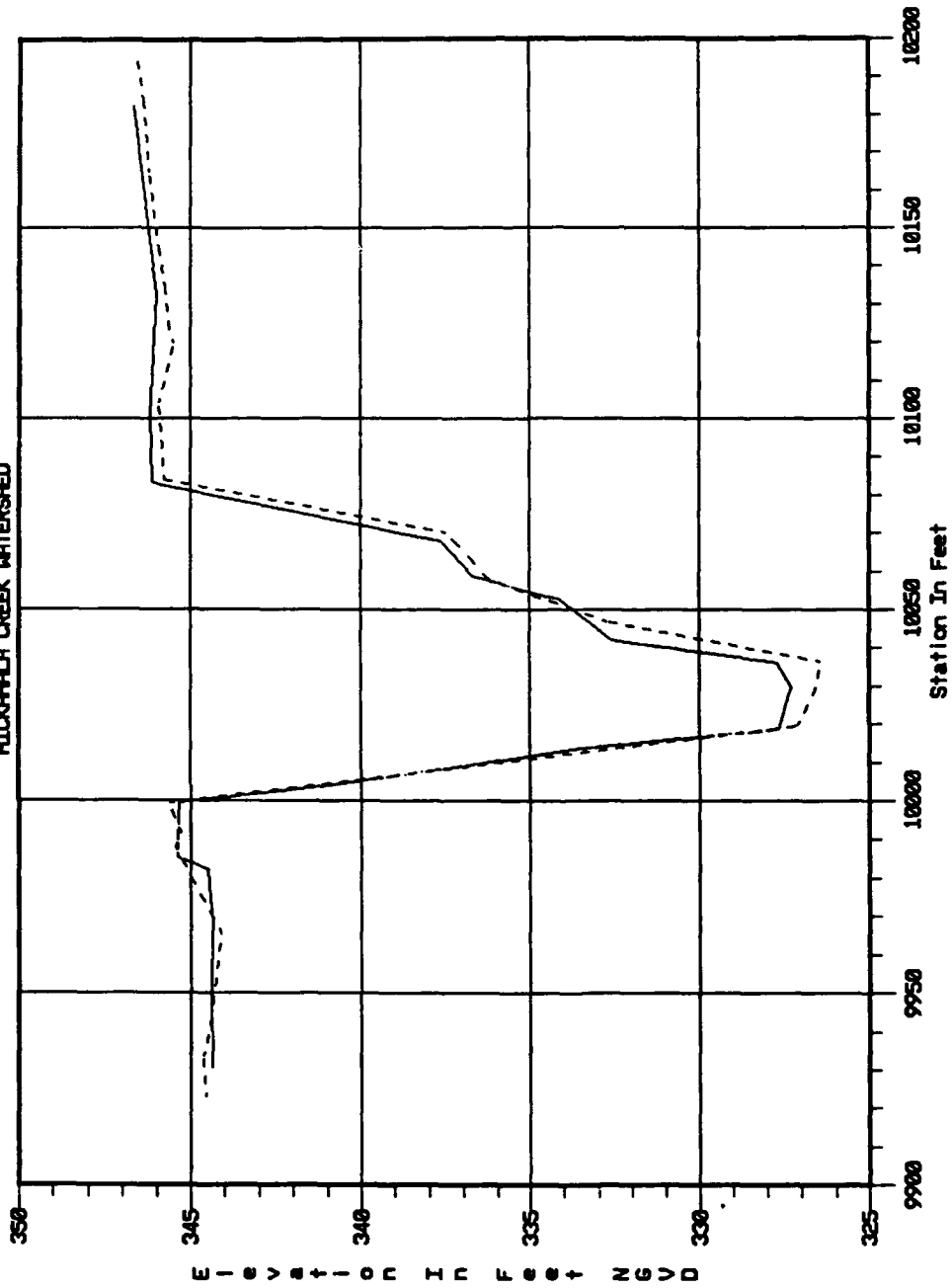


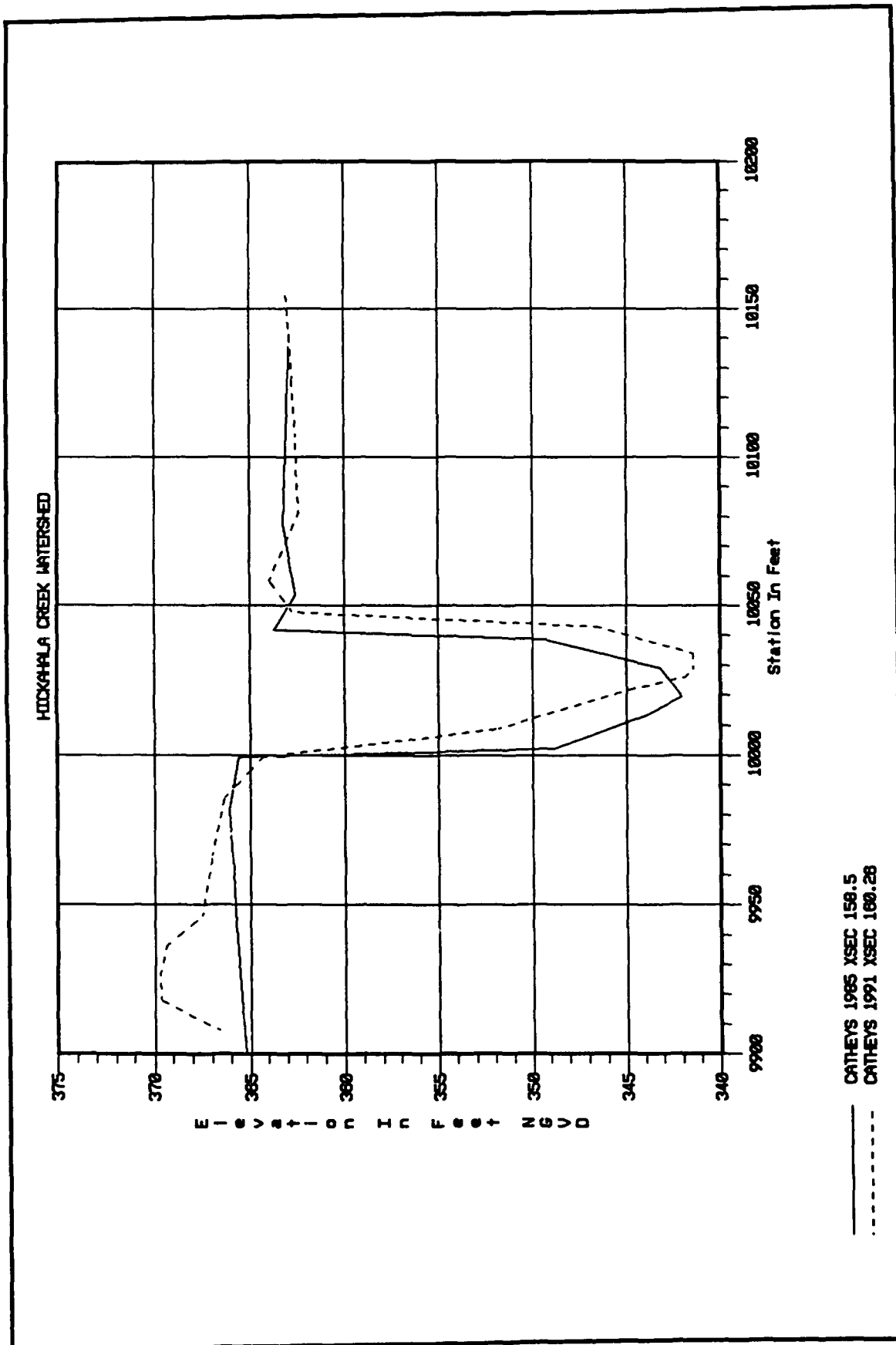
PLATE A92



HICKAHALA CREEK WATERSHED



— CATHEYS 1985 XSEC 111.0
 - - - CATHEYS 1991 XSEC 111.74



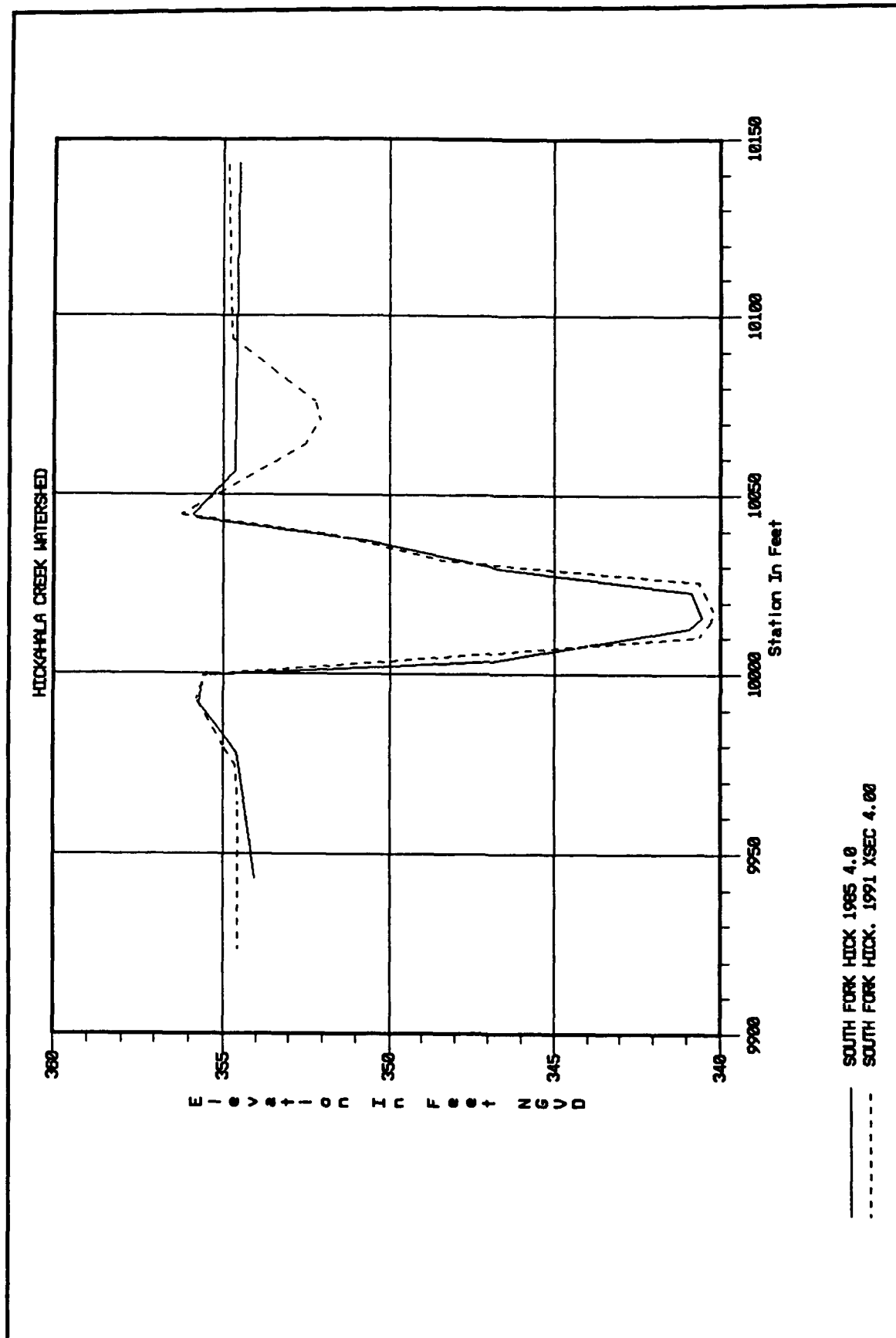


PLATE A96

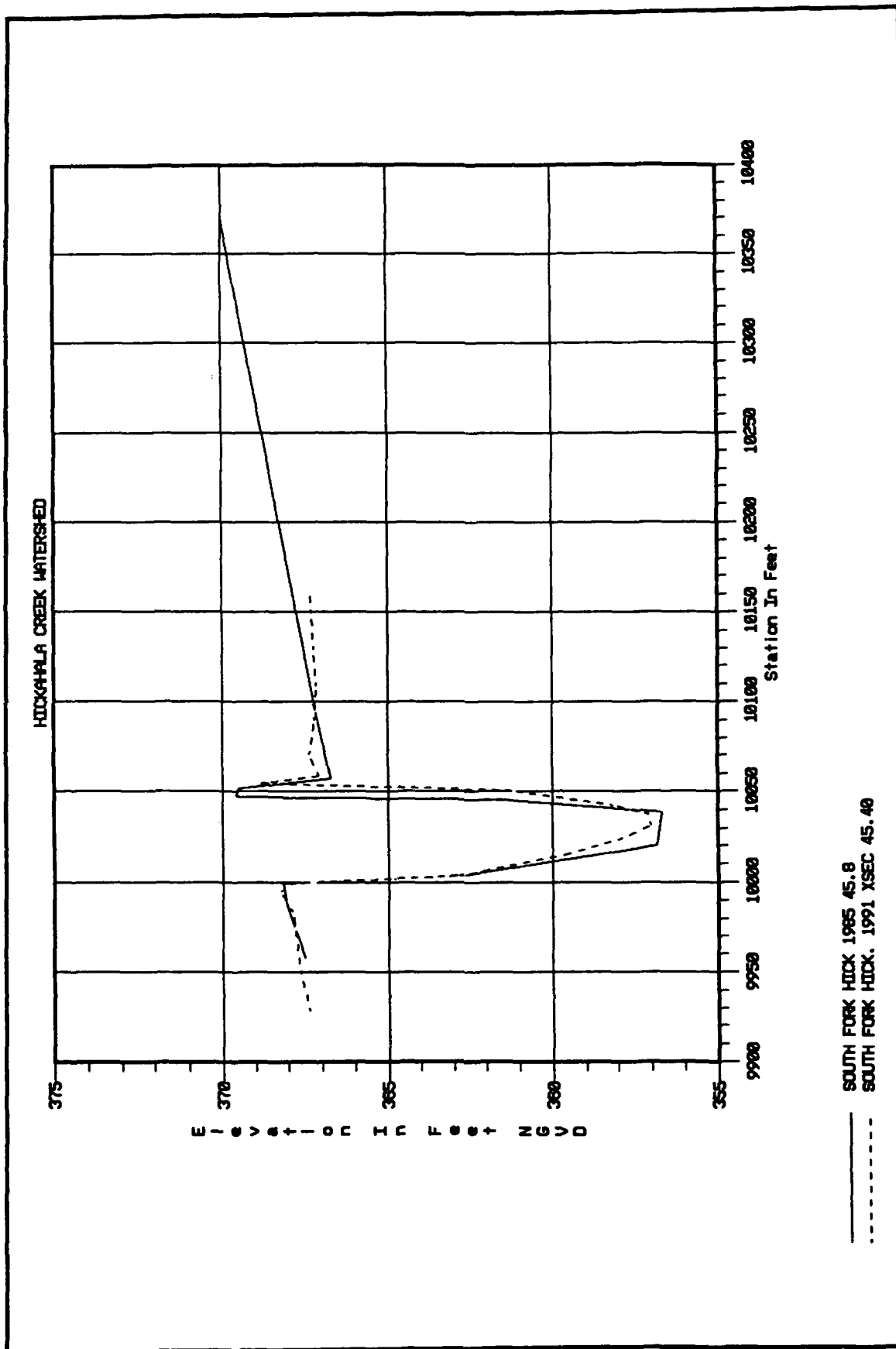
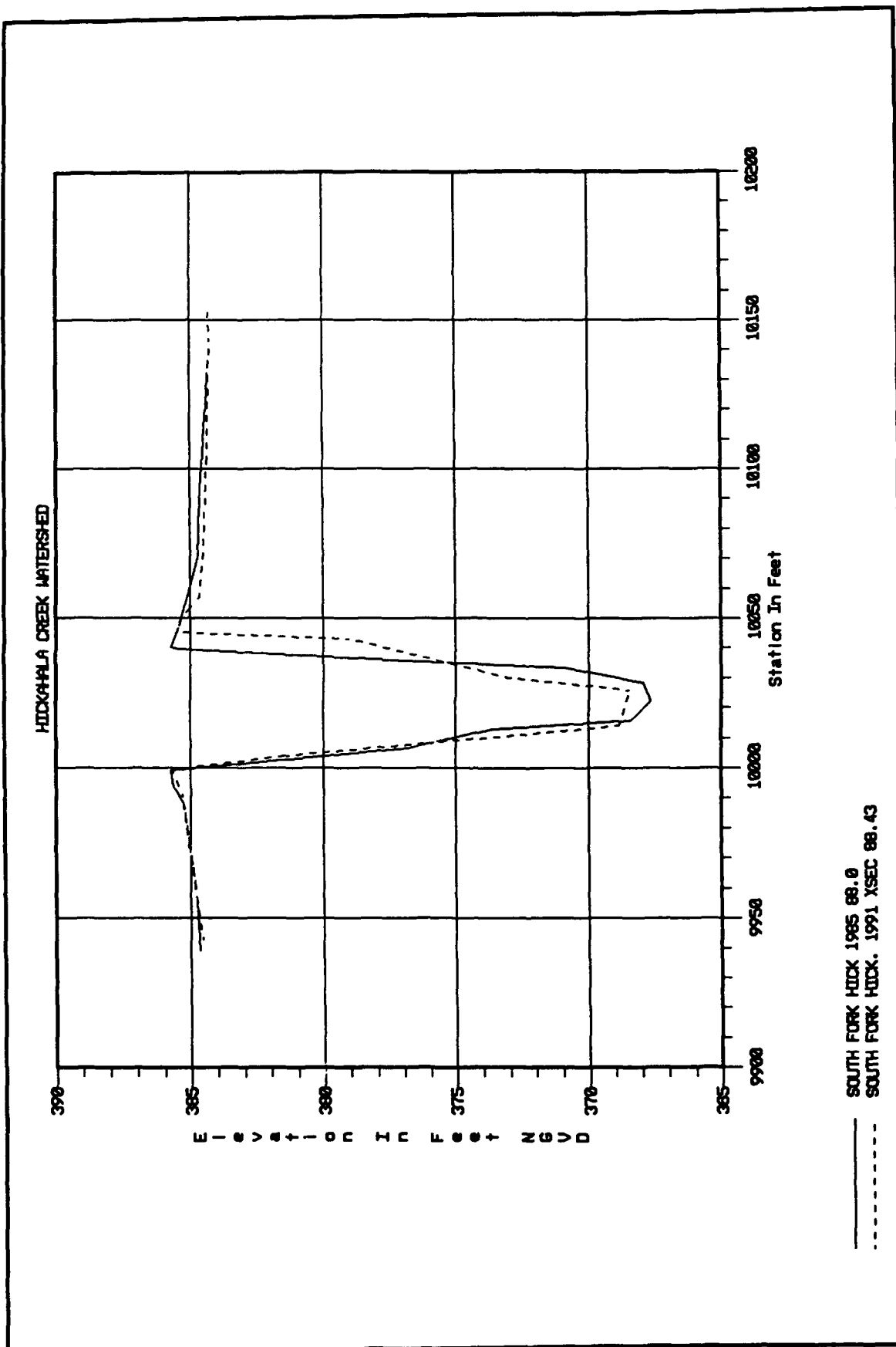
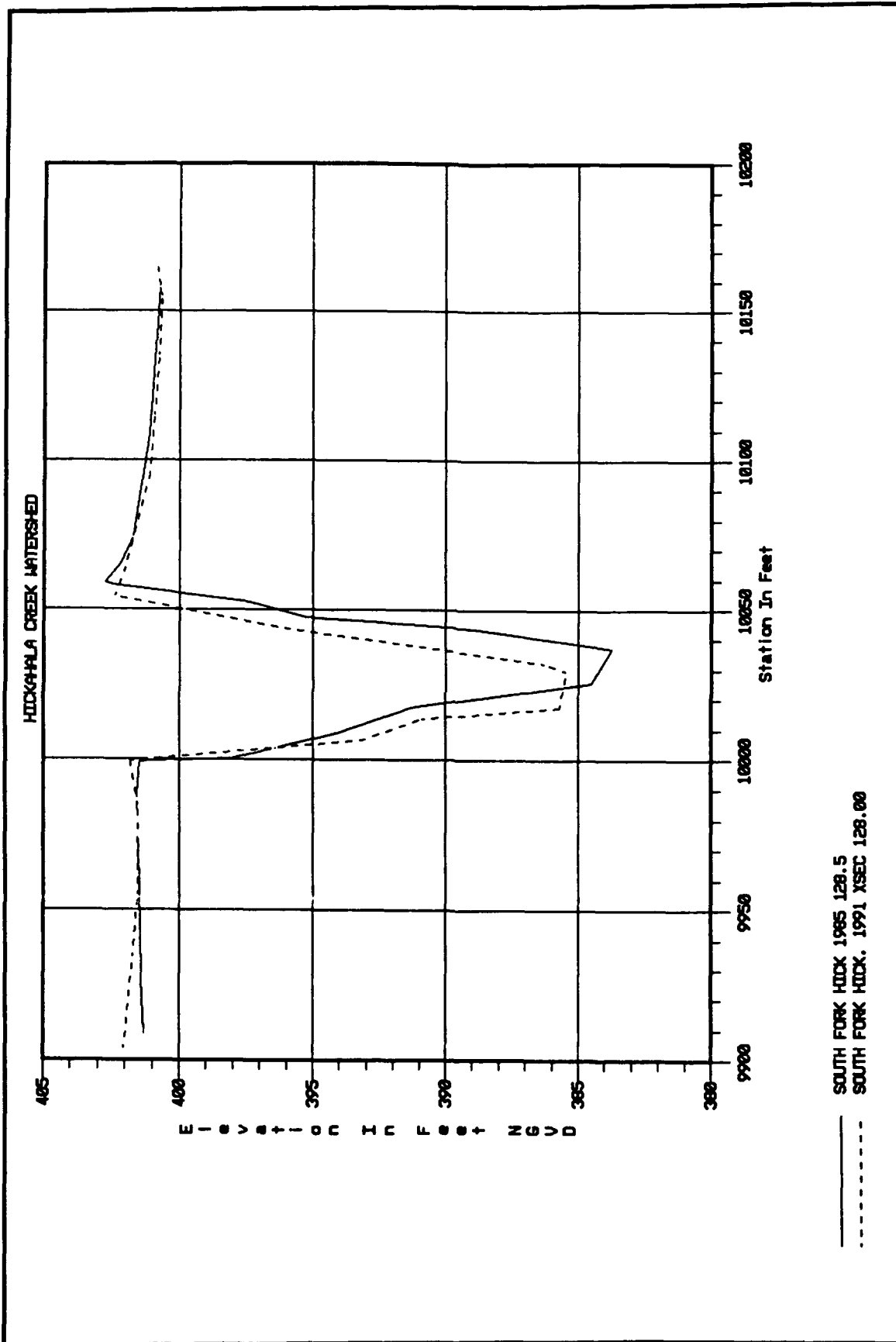
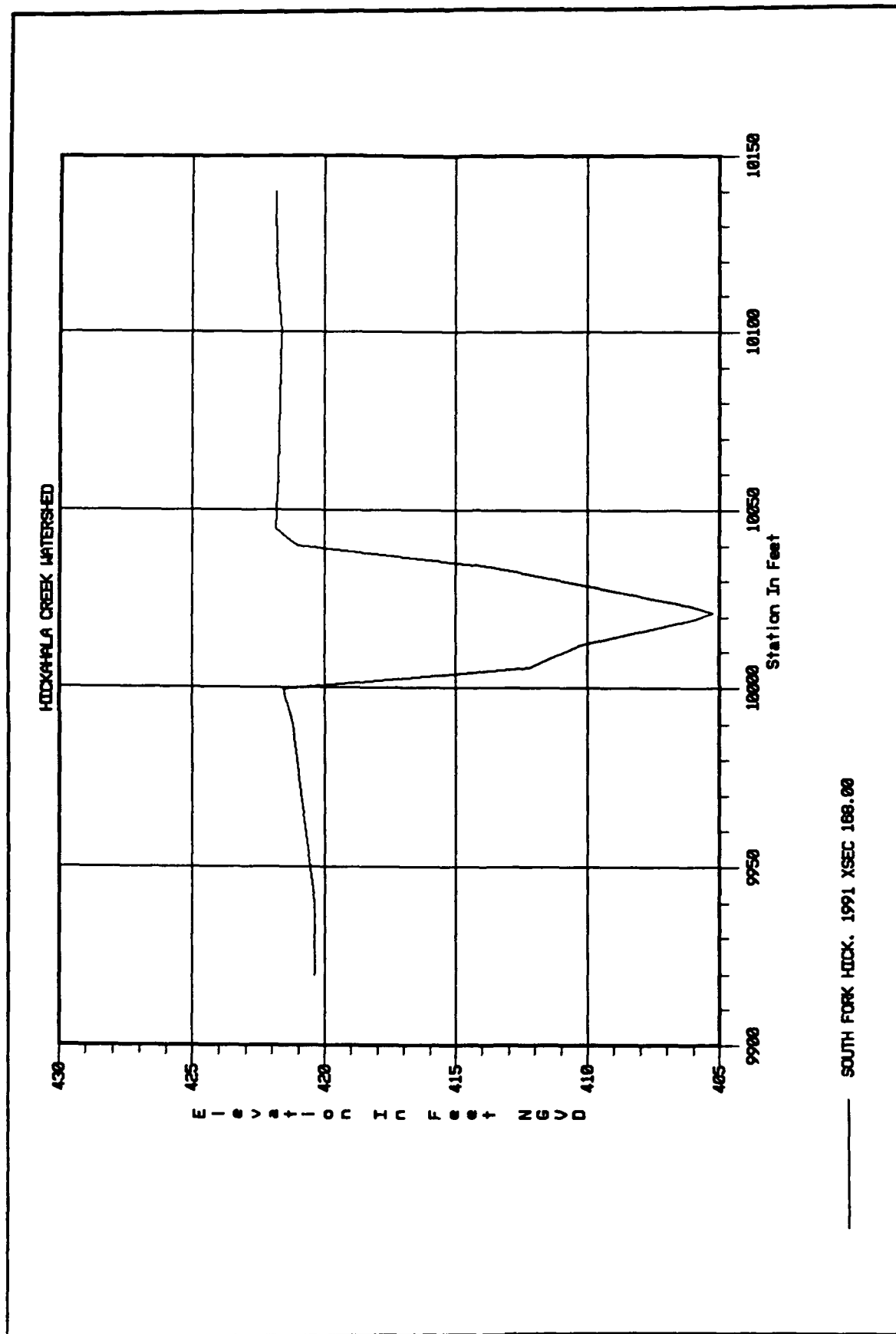


PLATE A97

PLATE A98







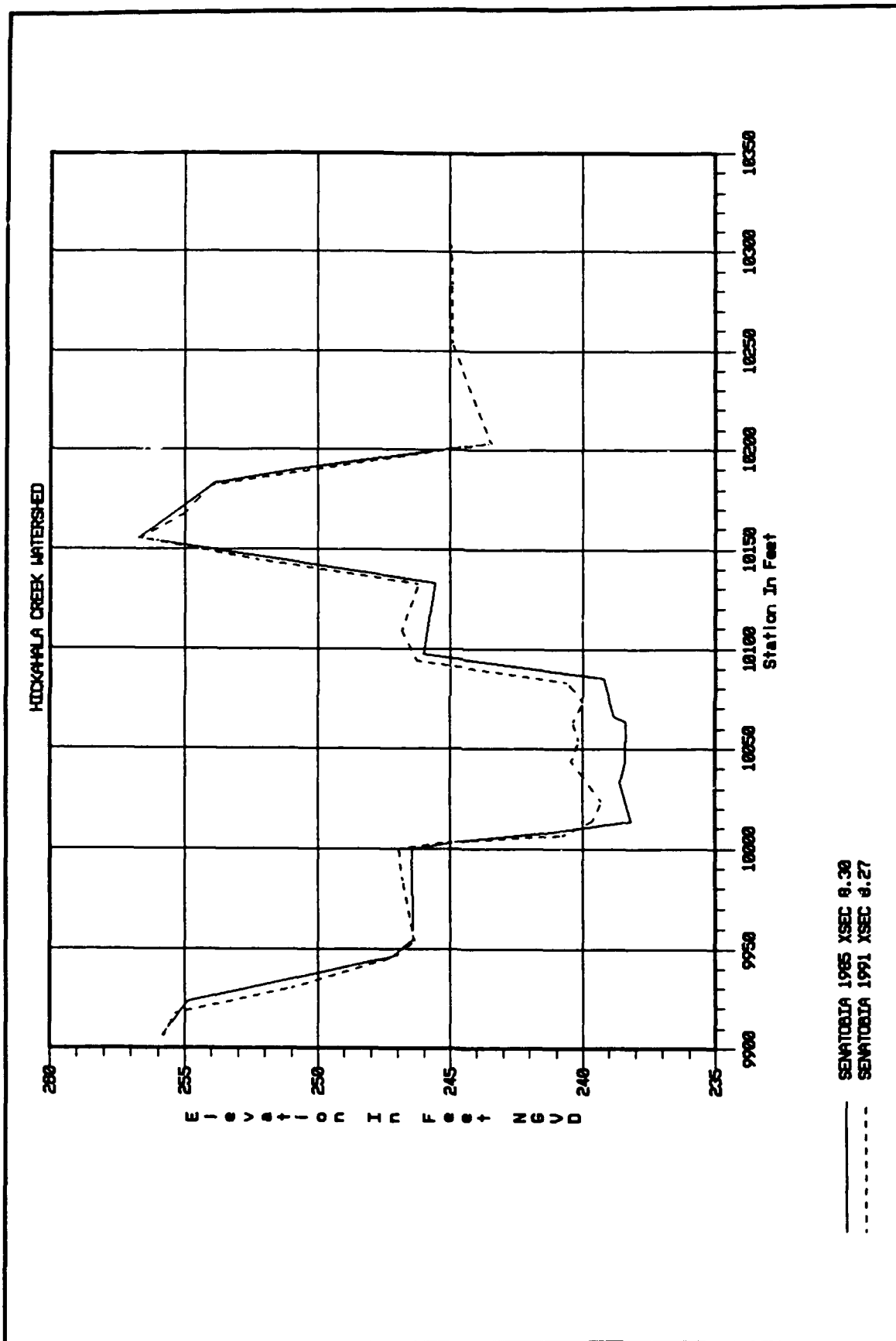


PLATE A101

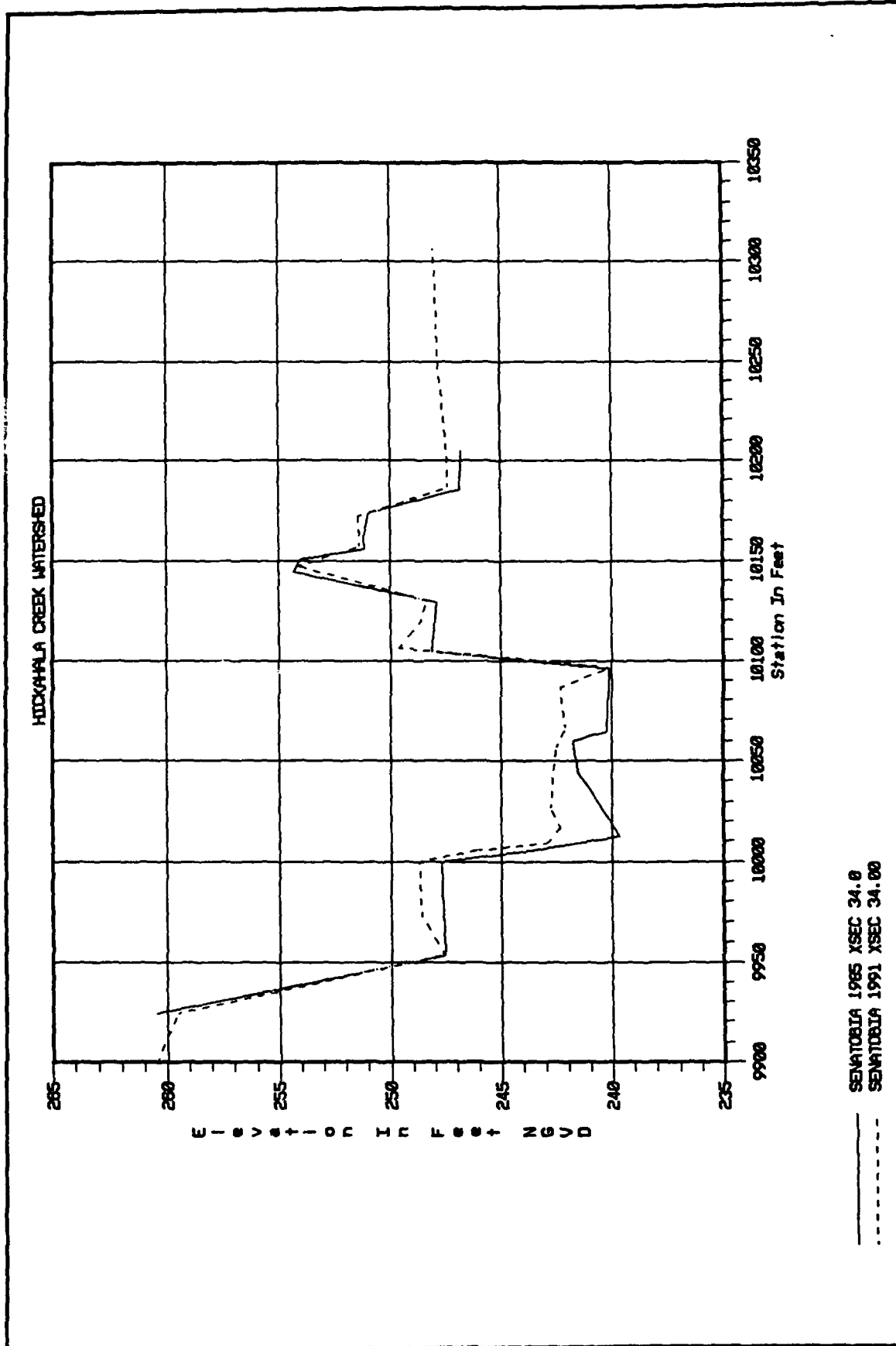
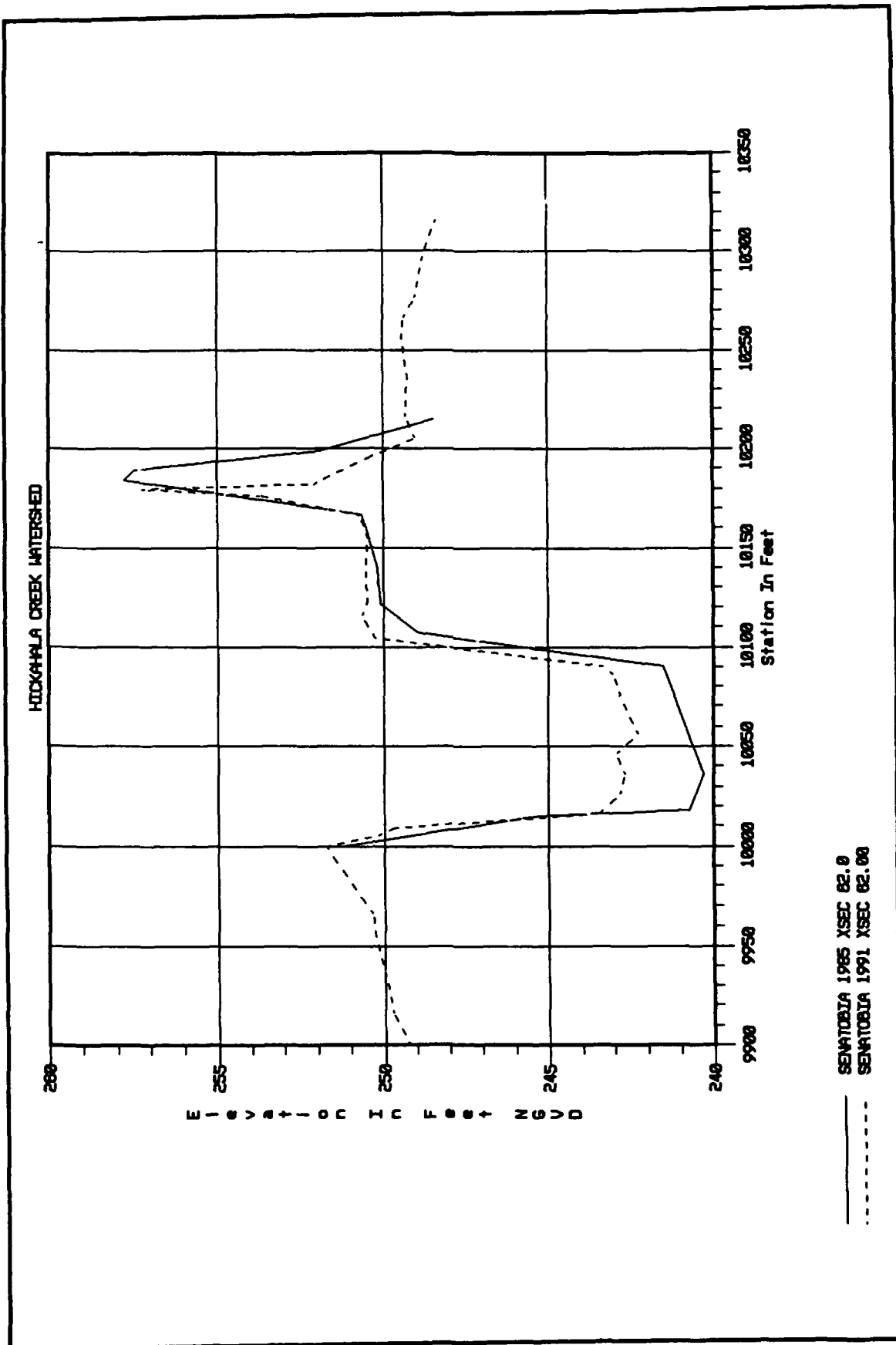


PLATE A102



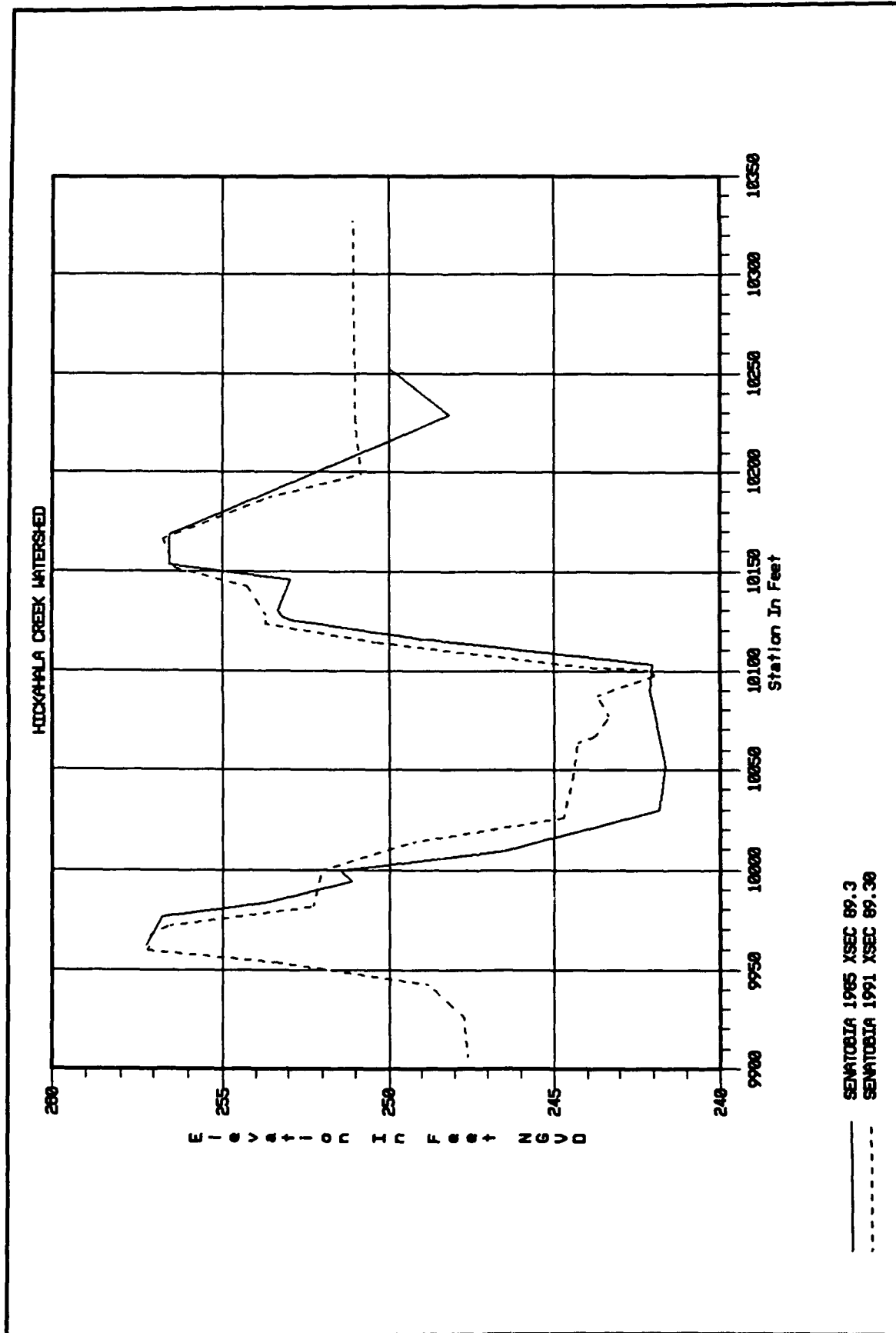
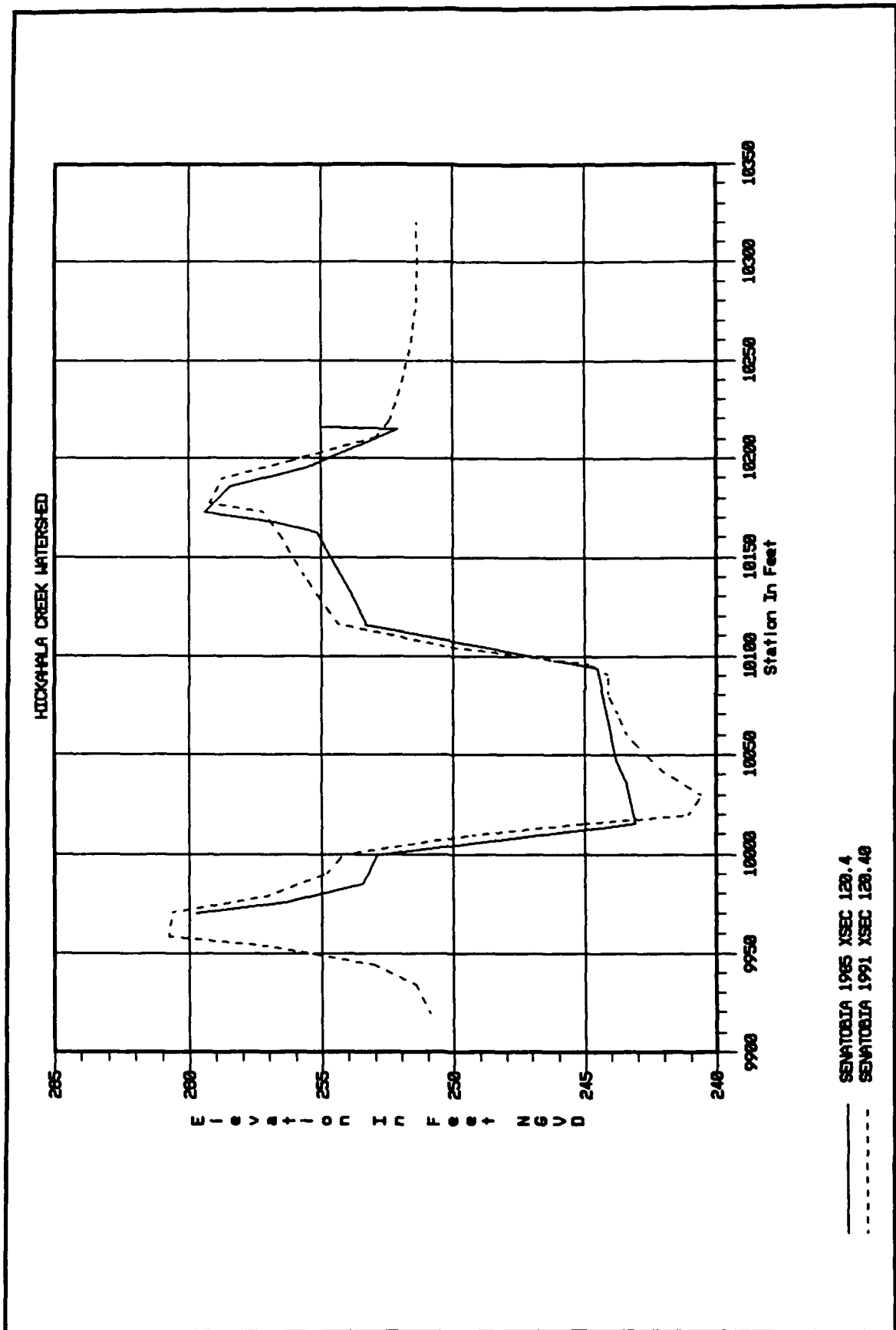


PLATE A104



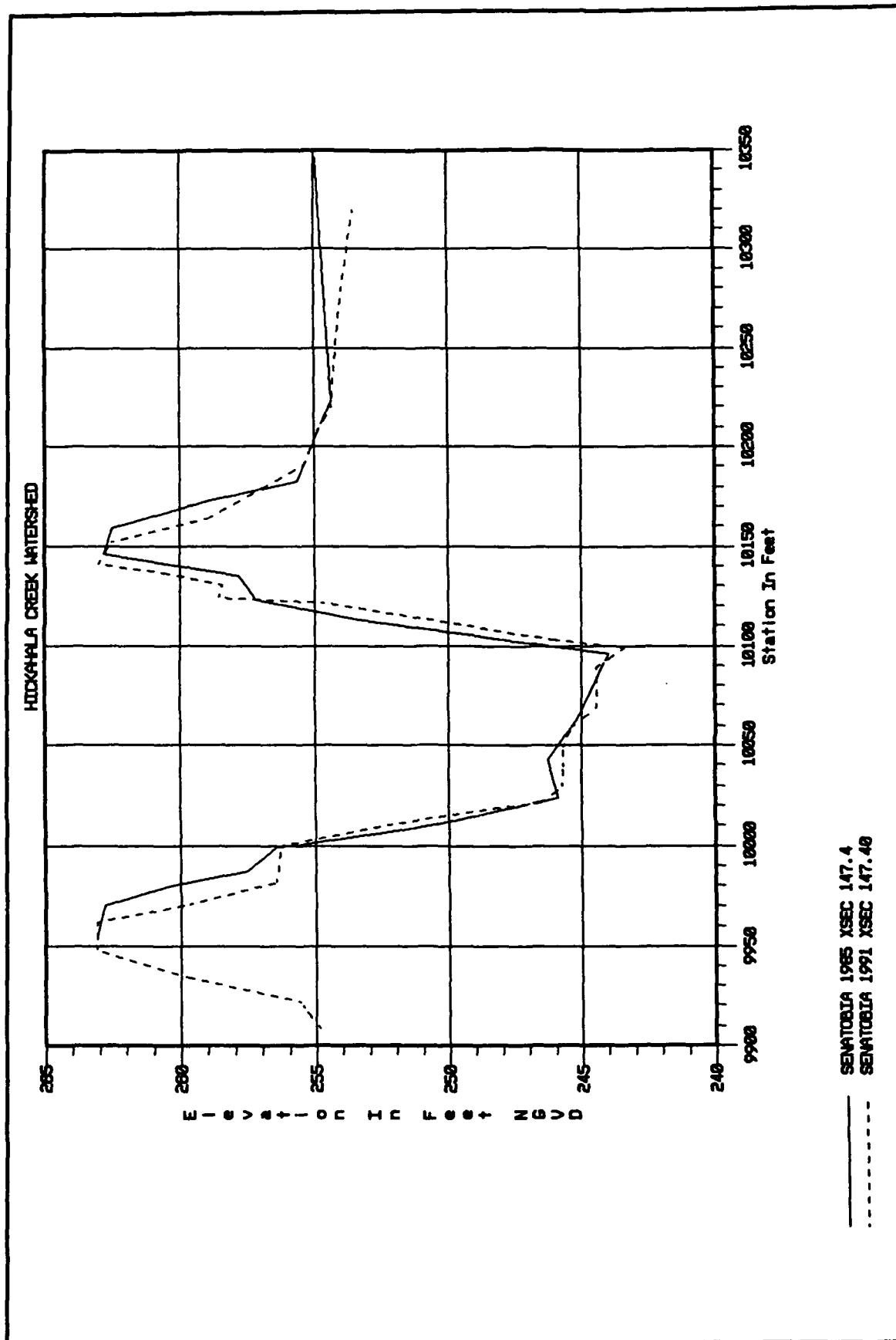
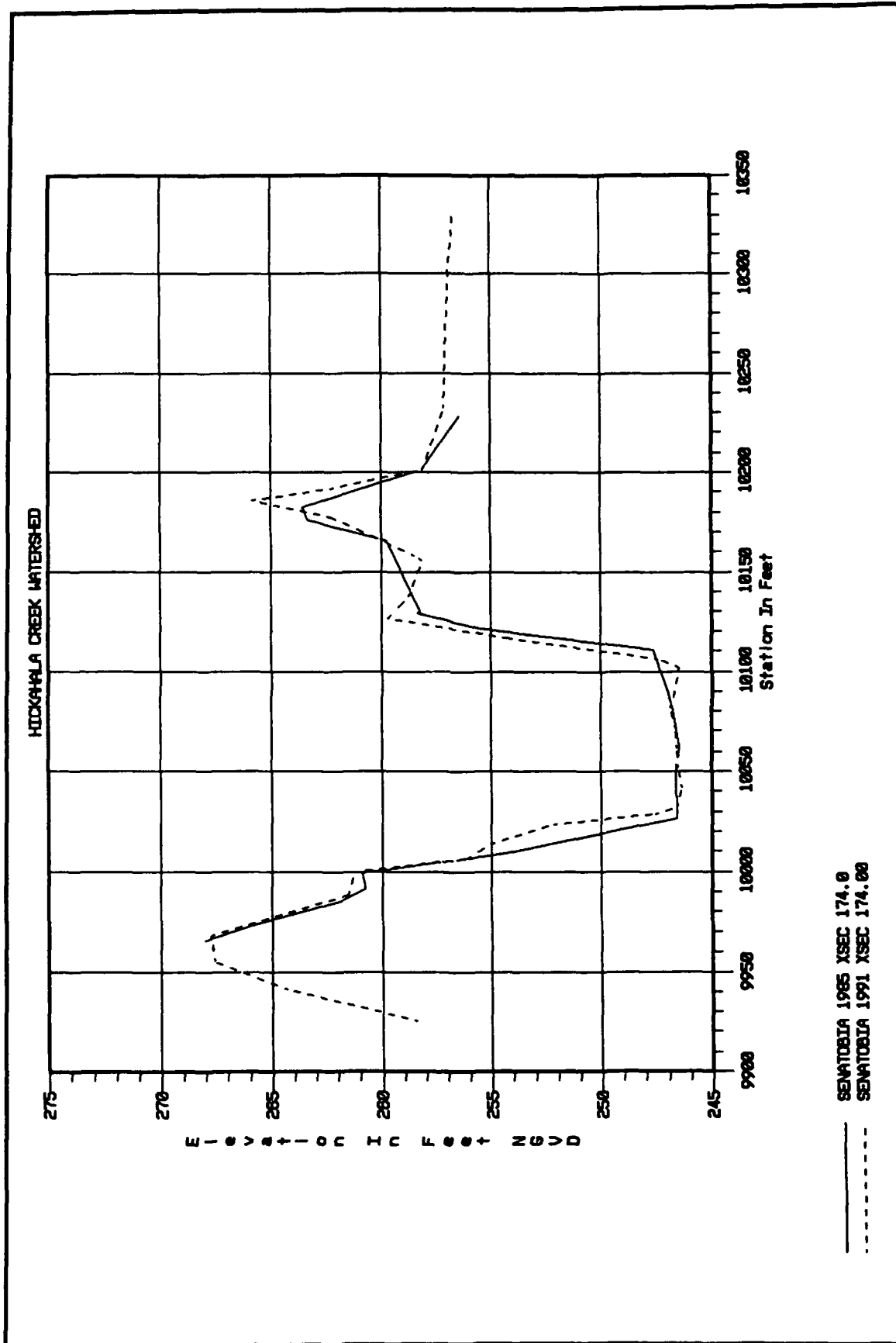


PLATE A106



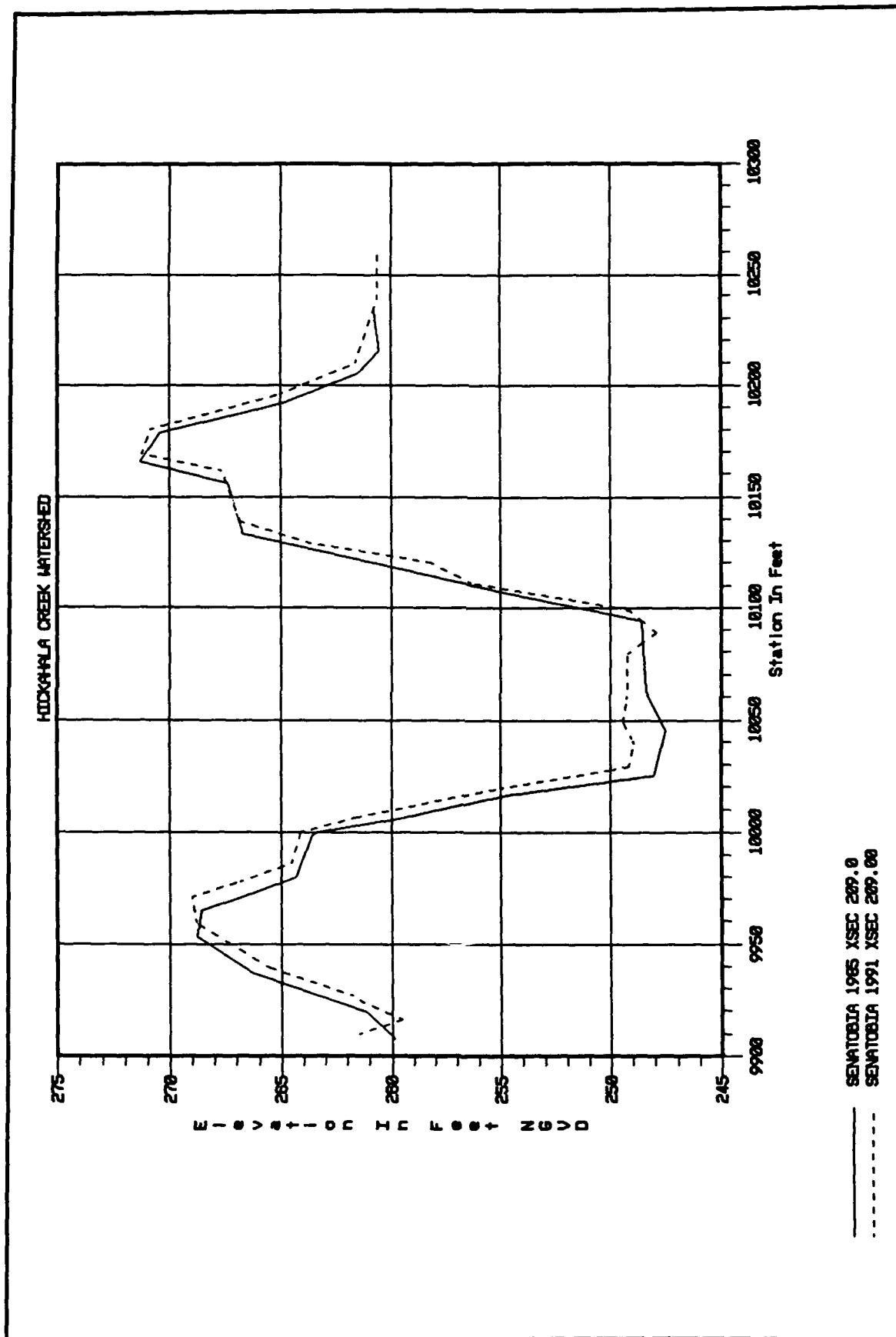
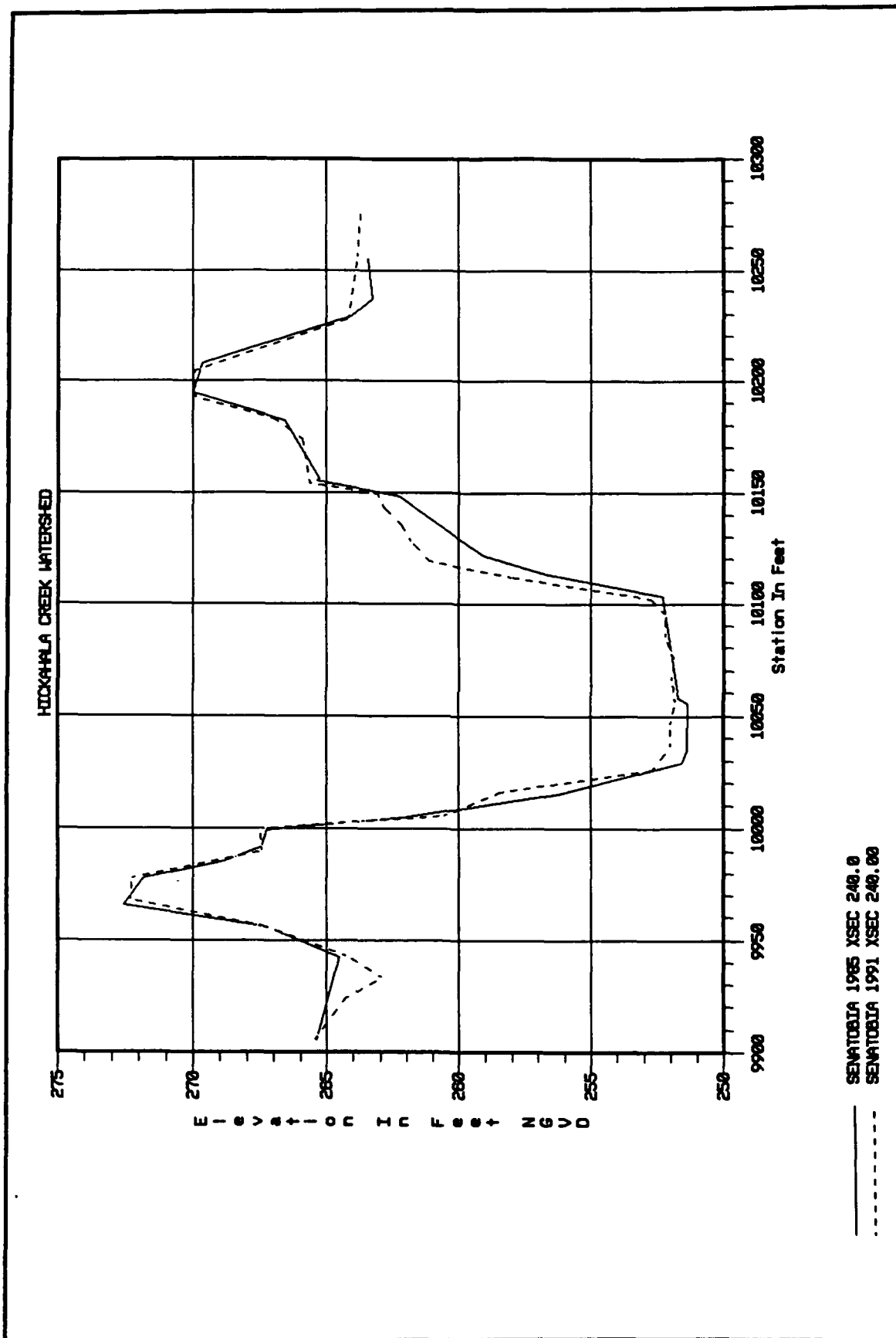
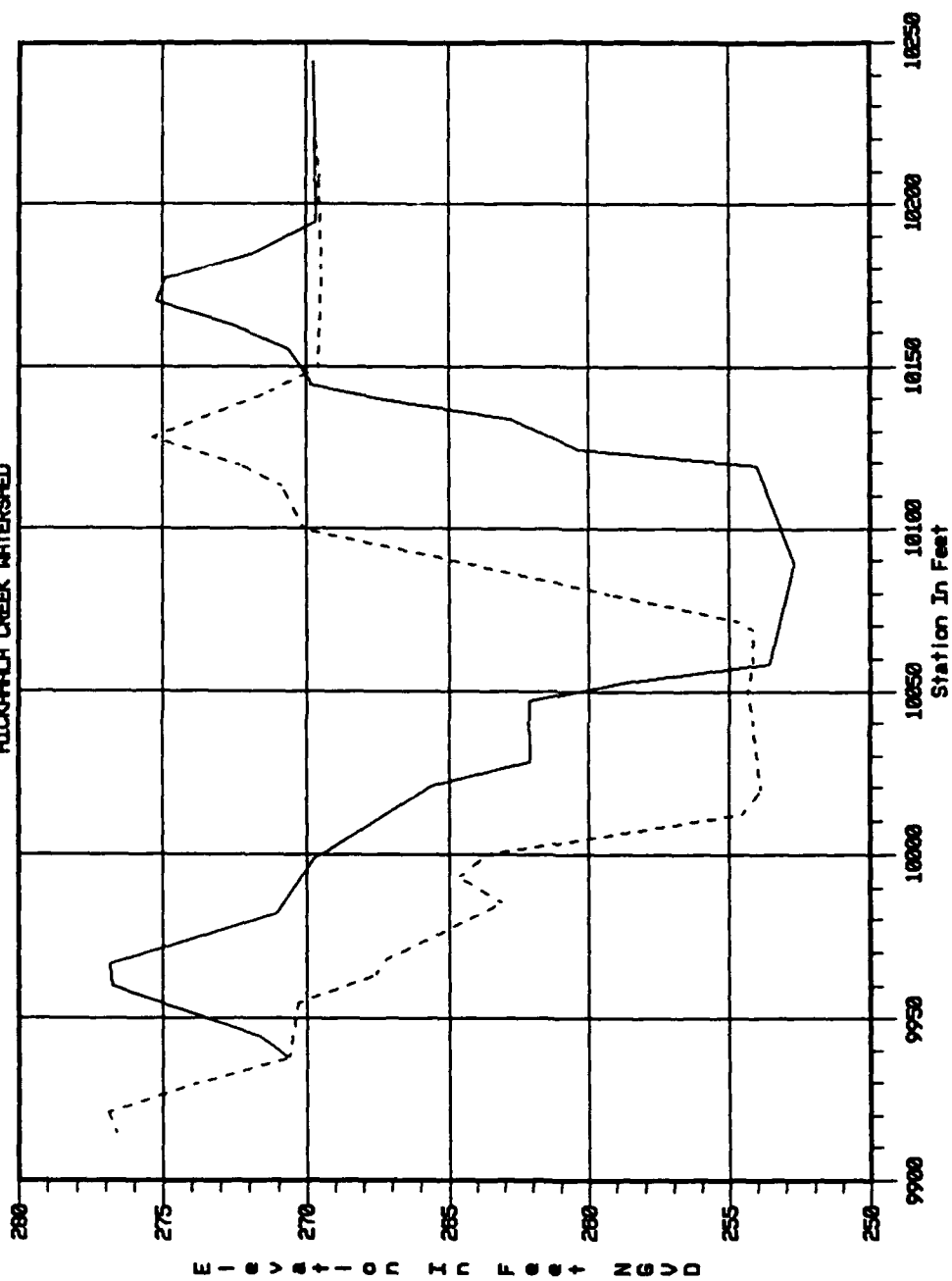


PLATE A108

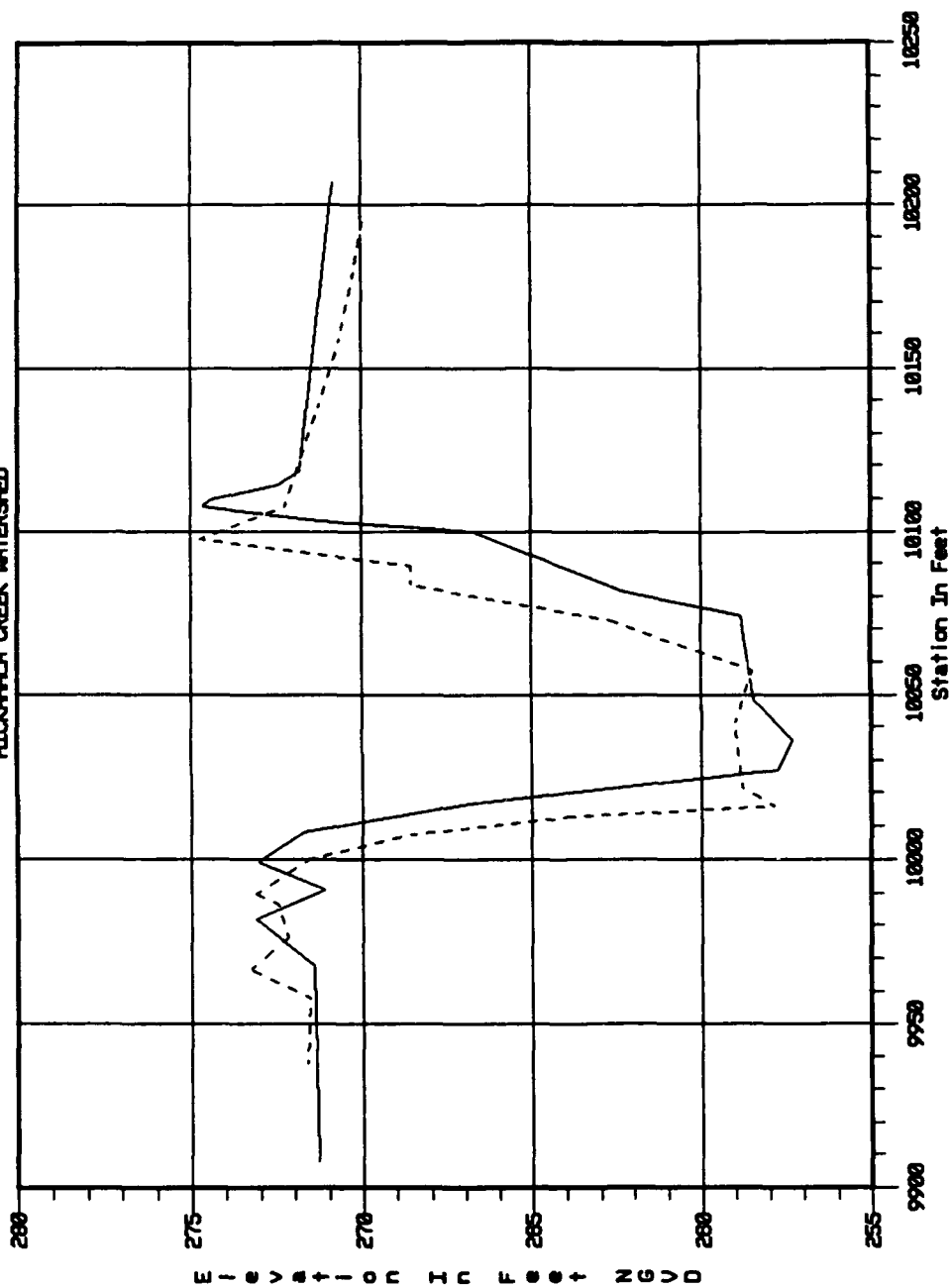


HICKOKLA CREEK WATERSHED

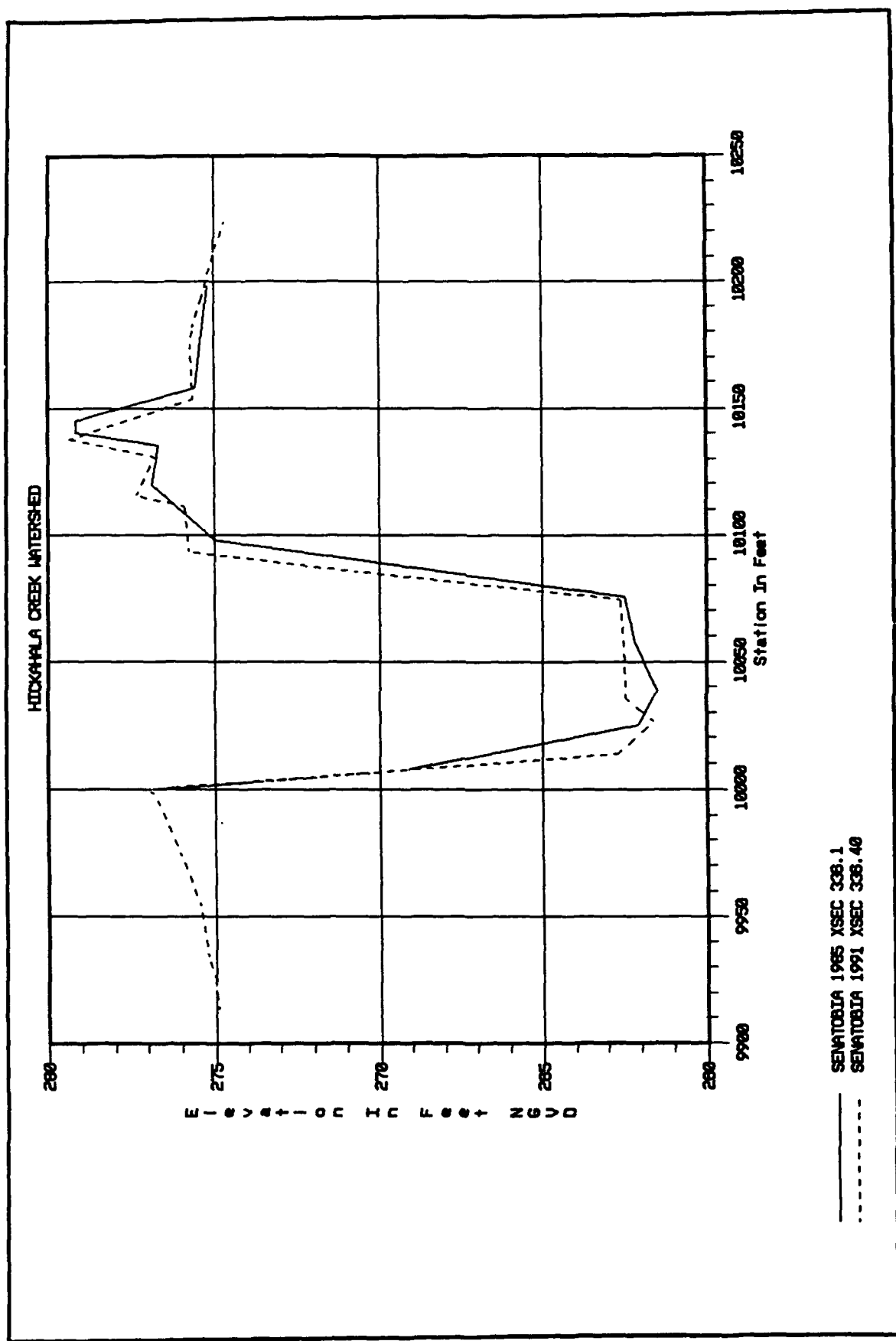


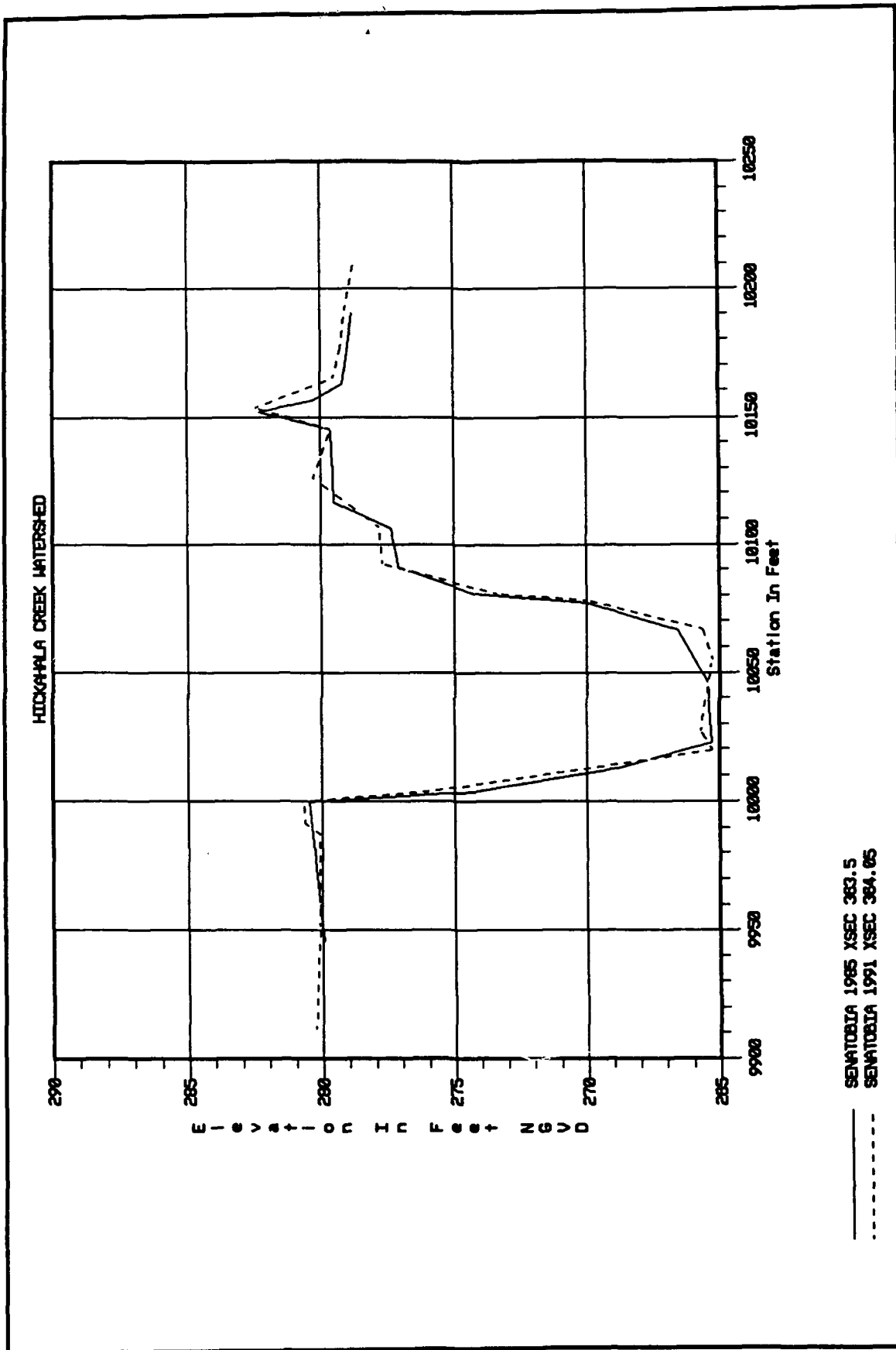
Senatobia 1985 XSEC 281.0
Senatobia 1991 XSEC 281.00

HICKAHULA CREEK WATERSHED



SENATORIA 1965 XSEC 305.0
 SENATORIA 1991 XSEC 305.00





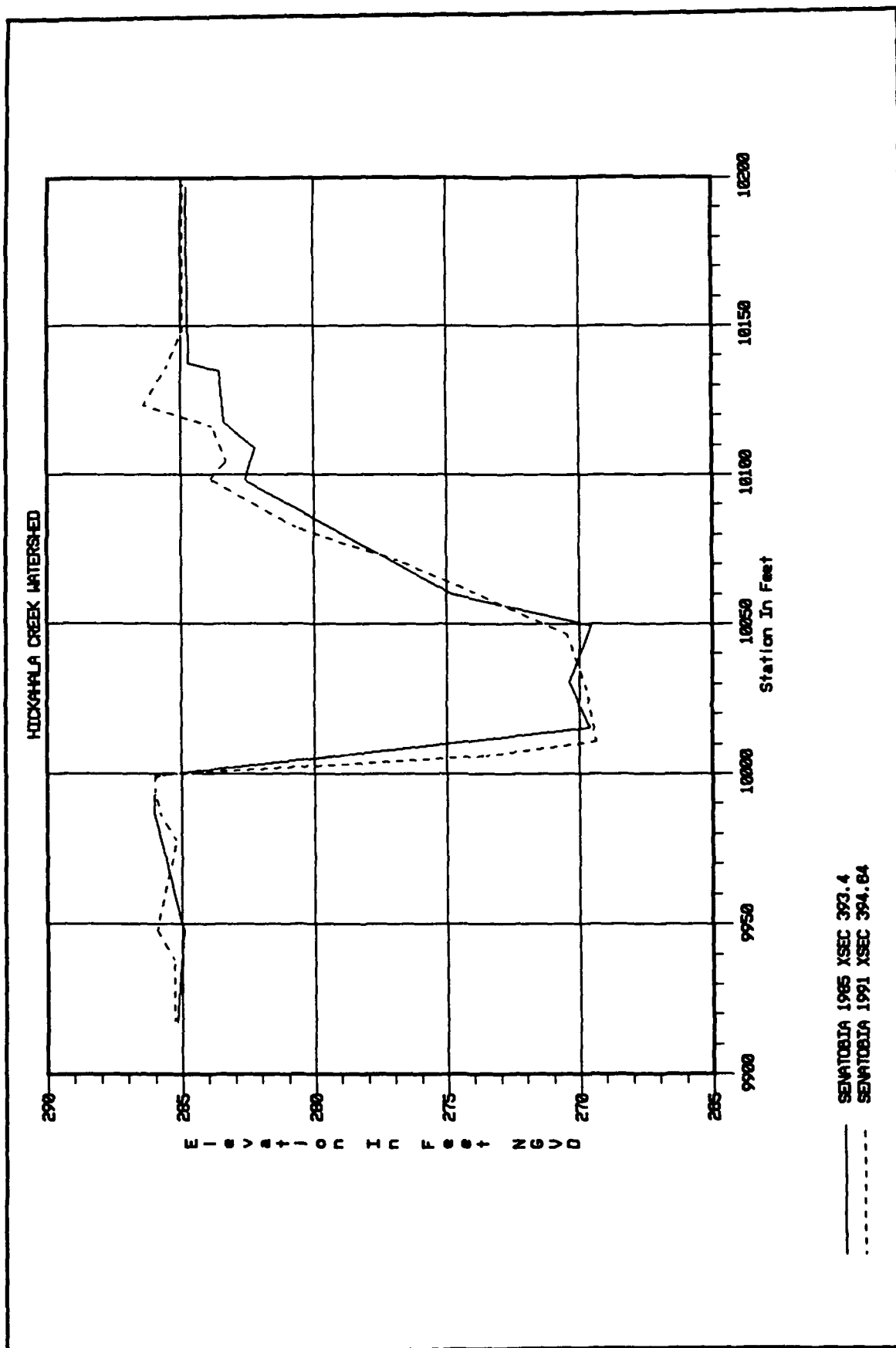
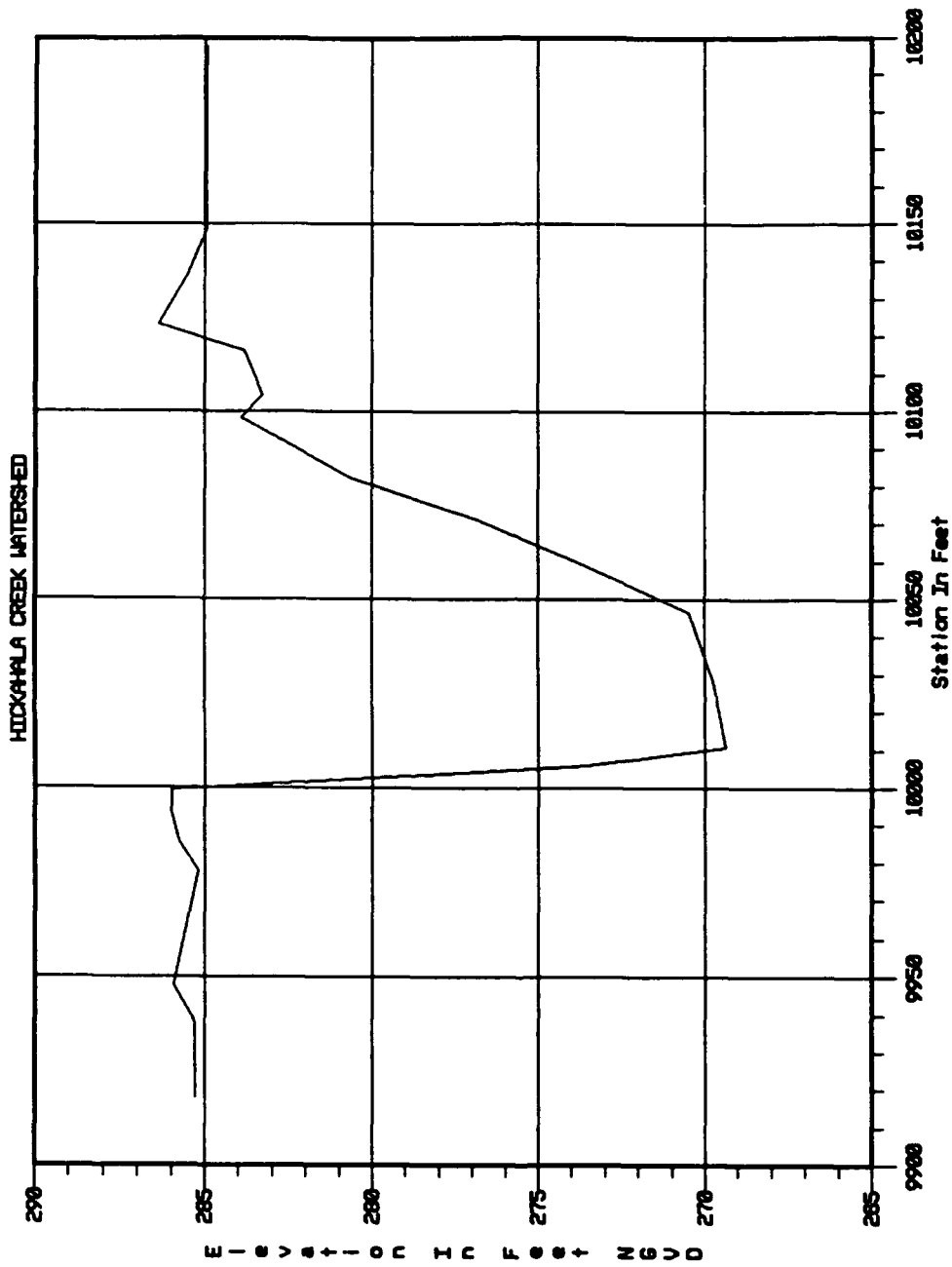


PLATE A114



SENATORIA 1991 XSEC 394.64

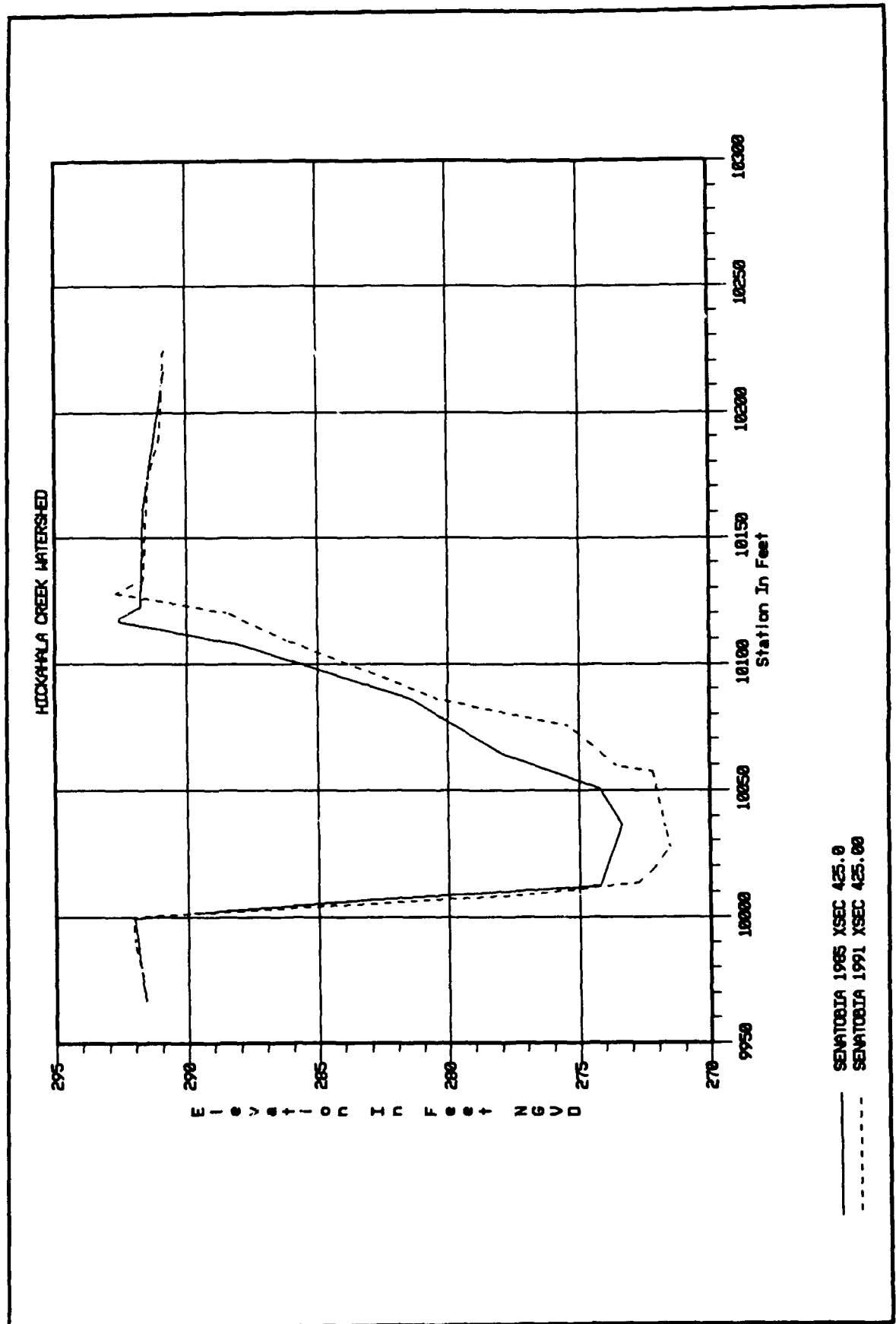
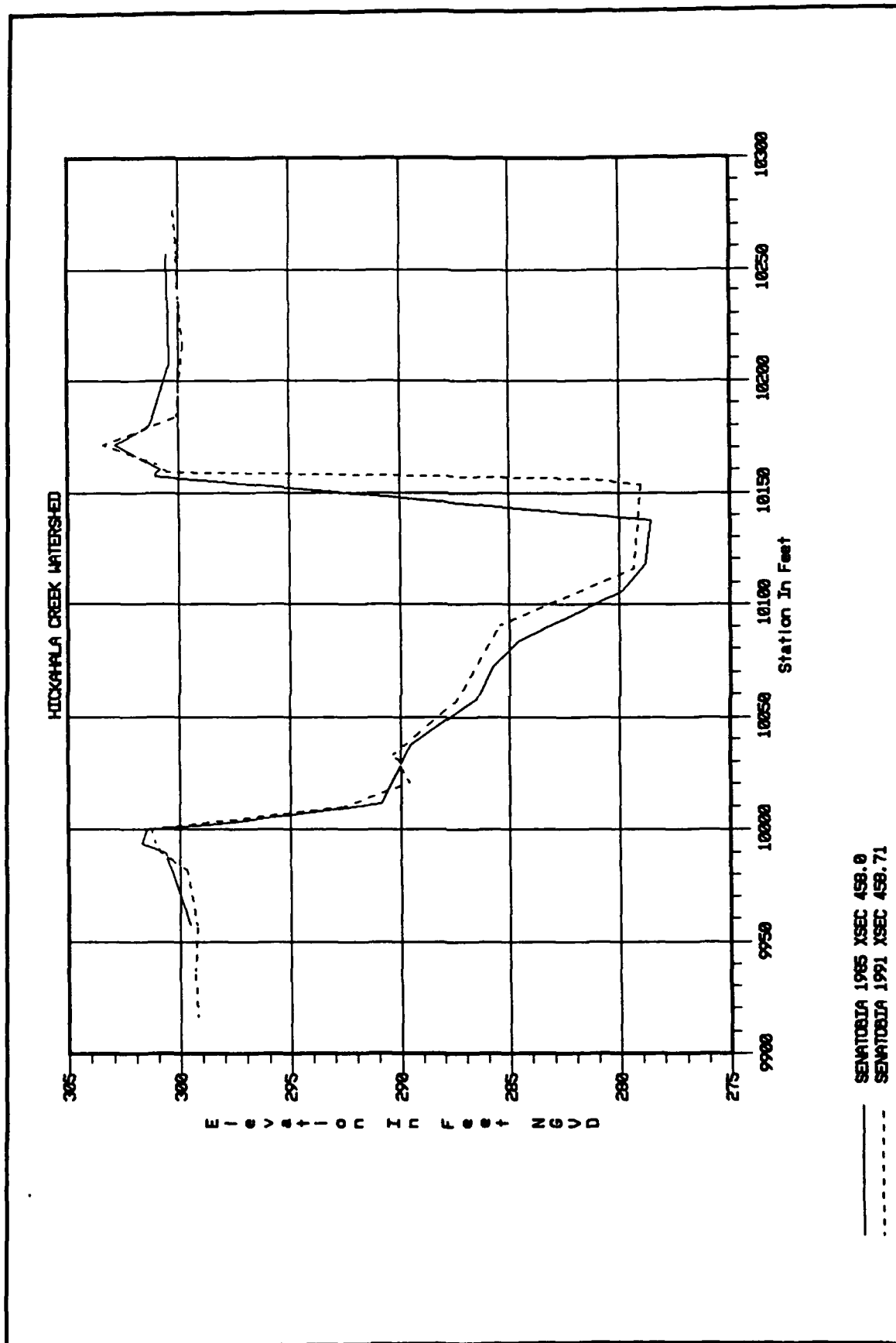


PLATE A116



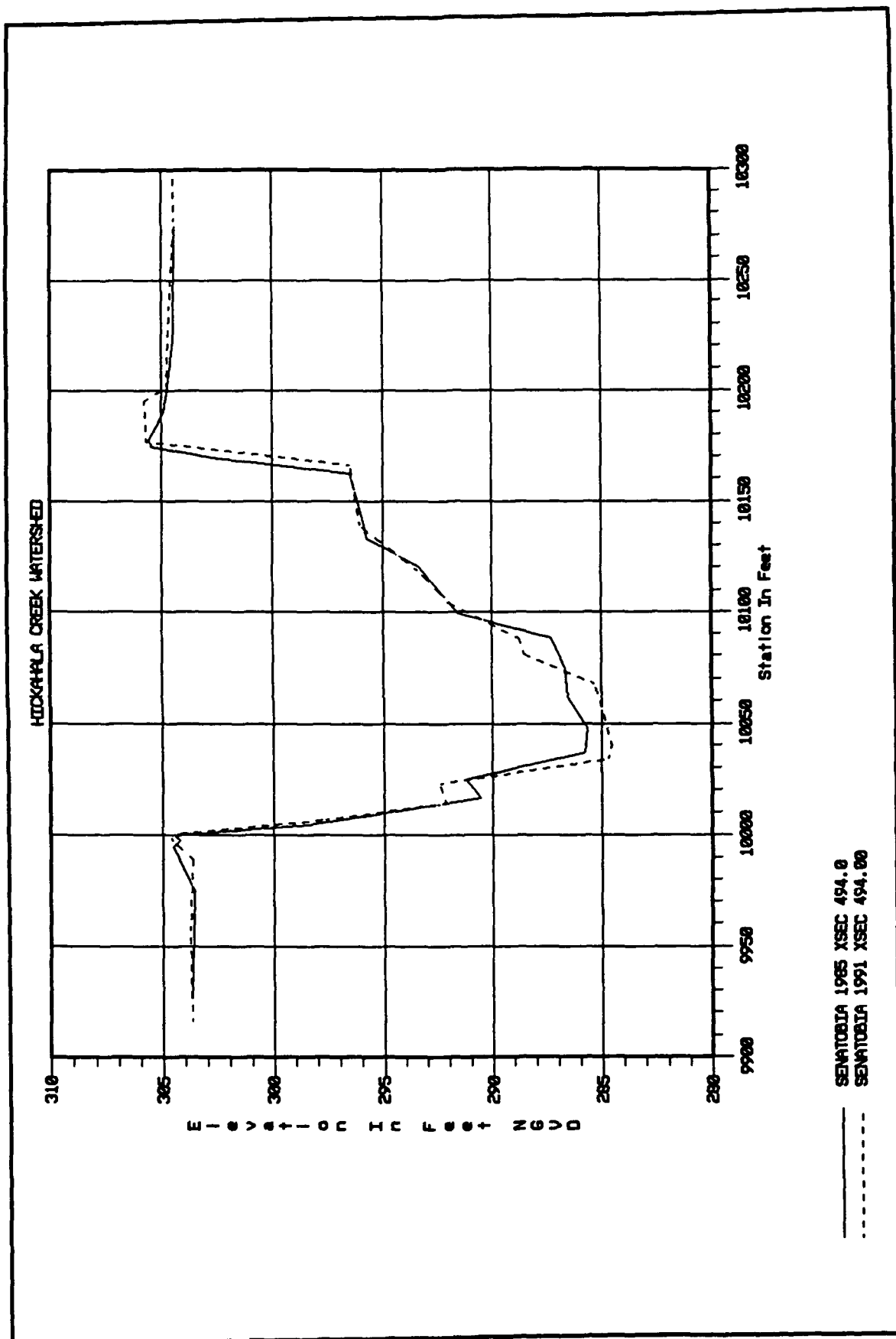
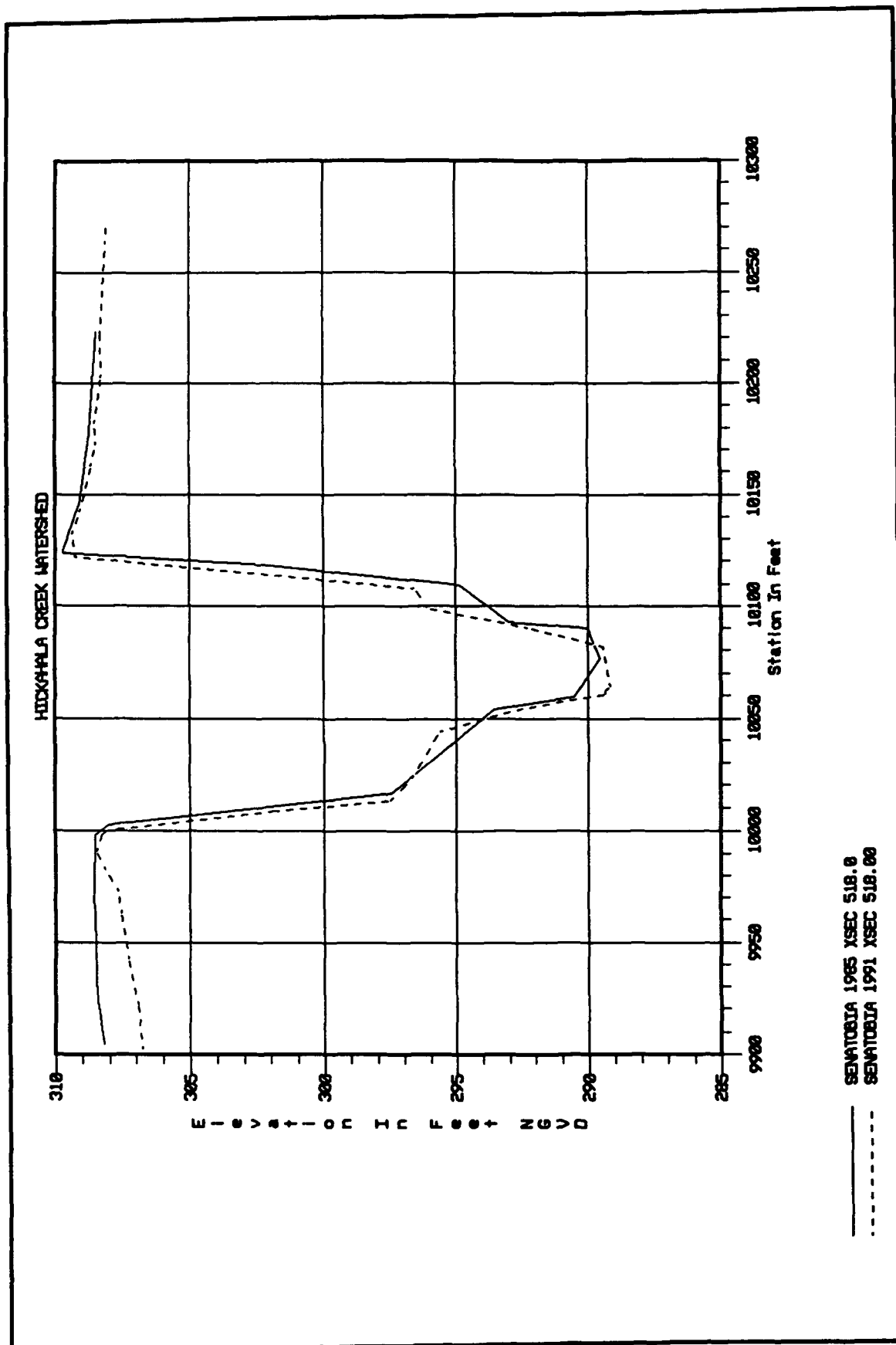


PLATE A118



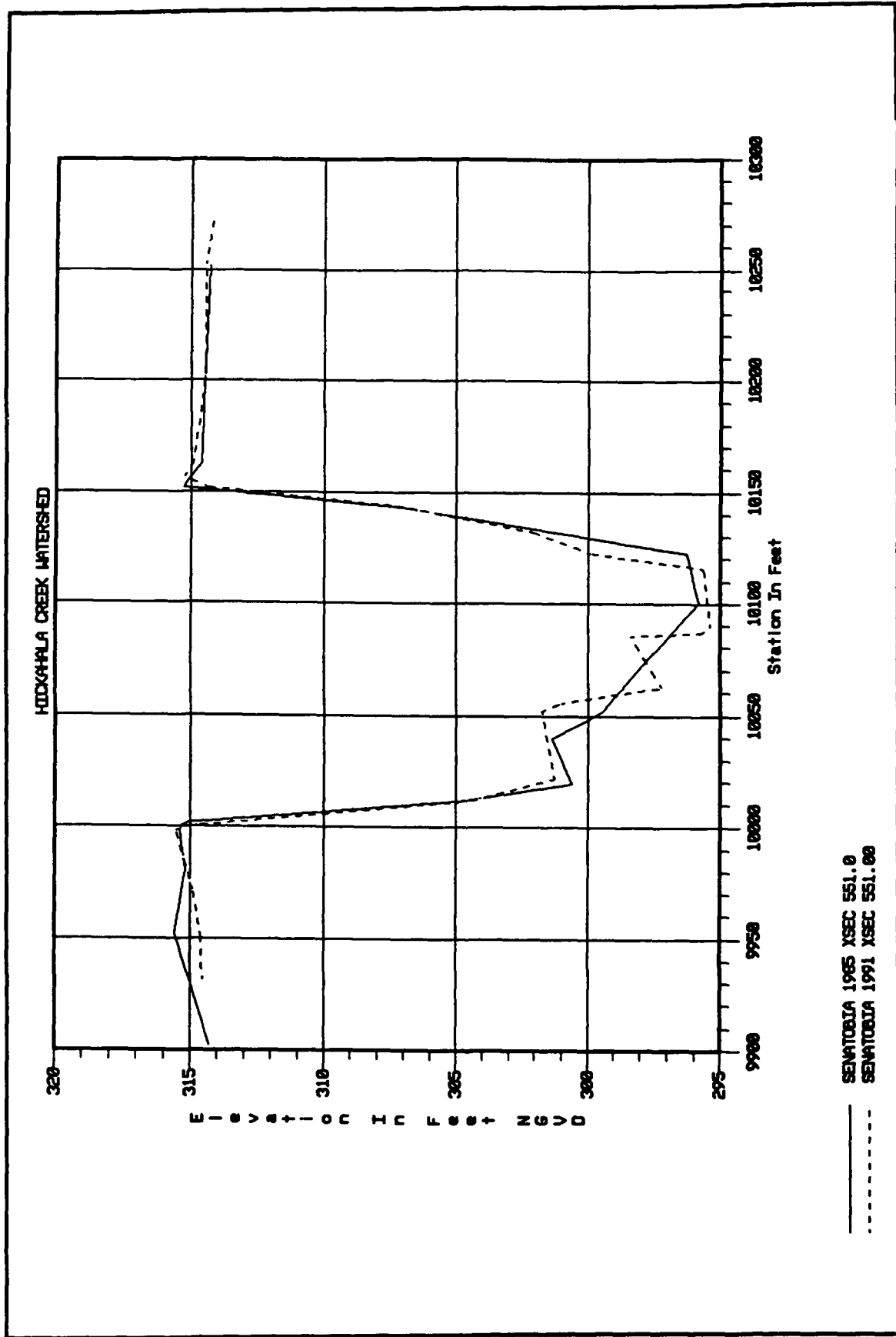
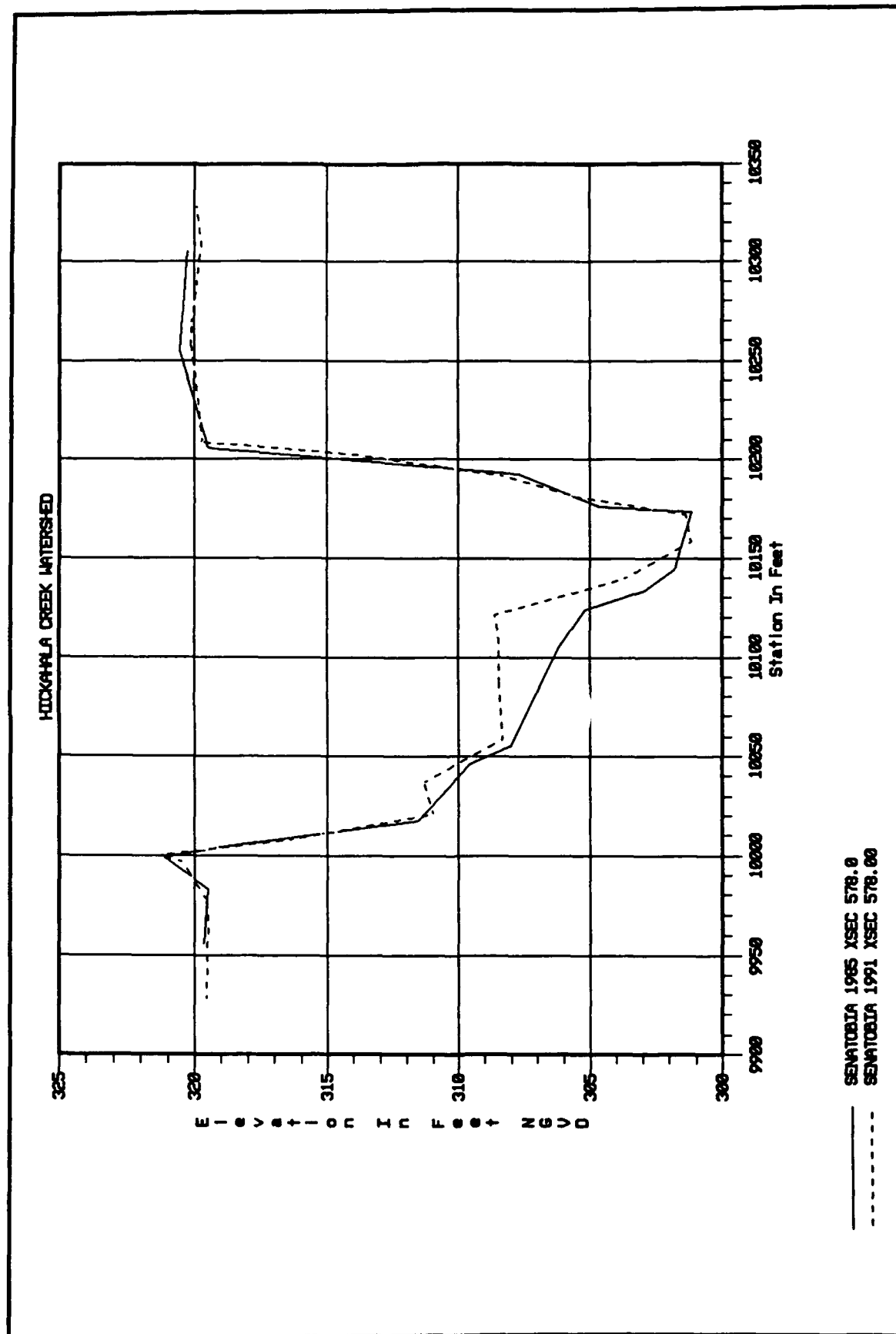


PLATE A120



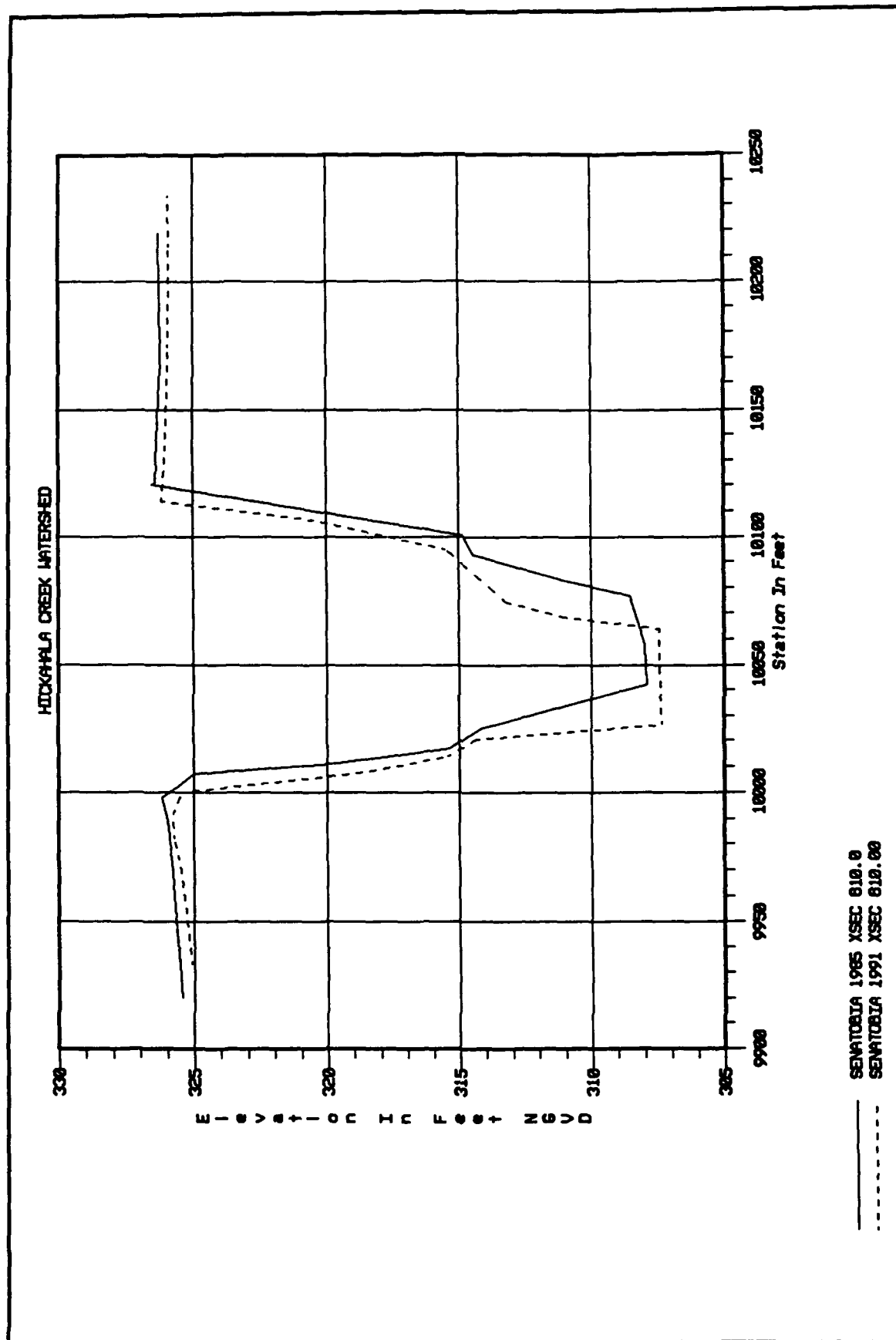
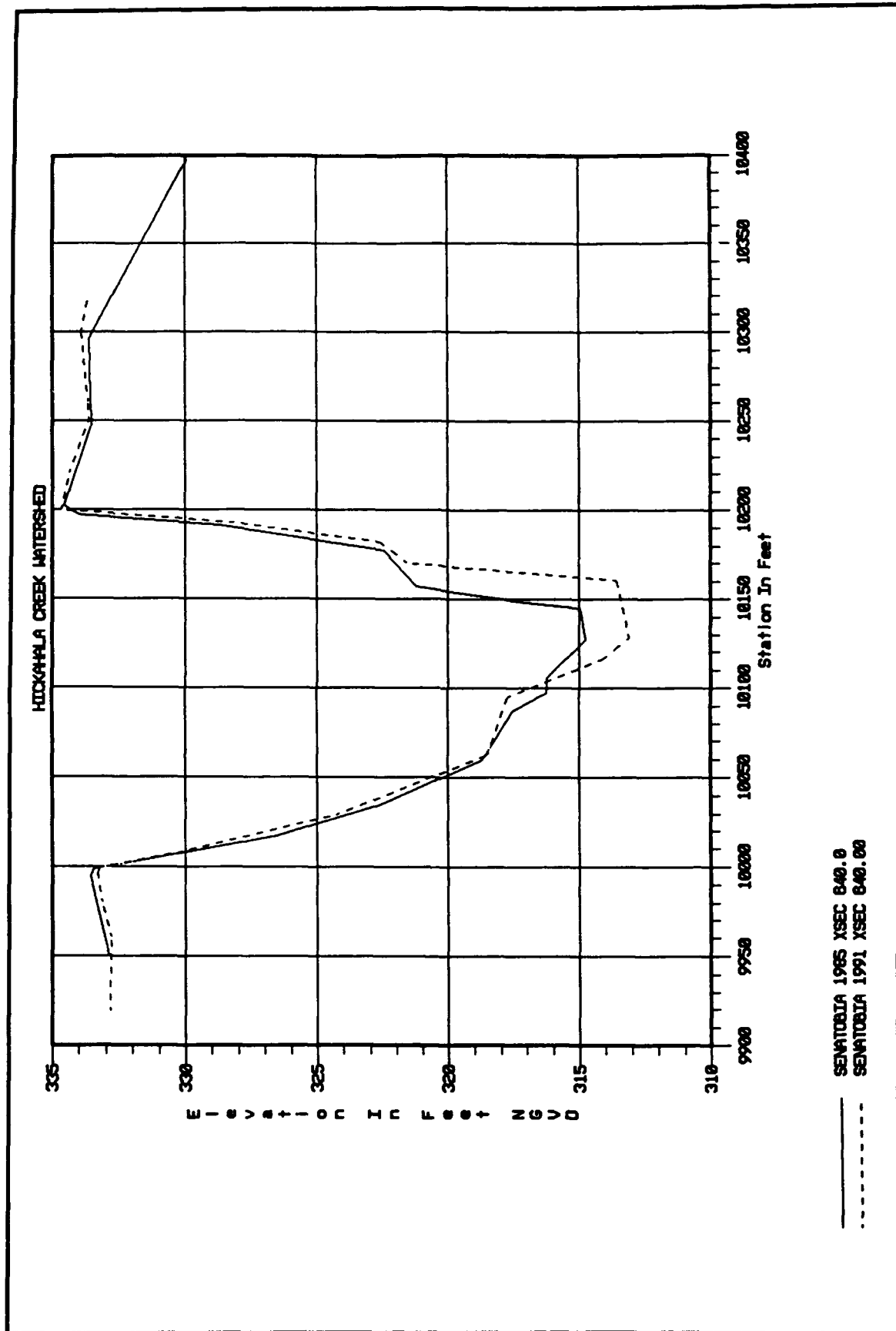


PLATE A122



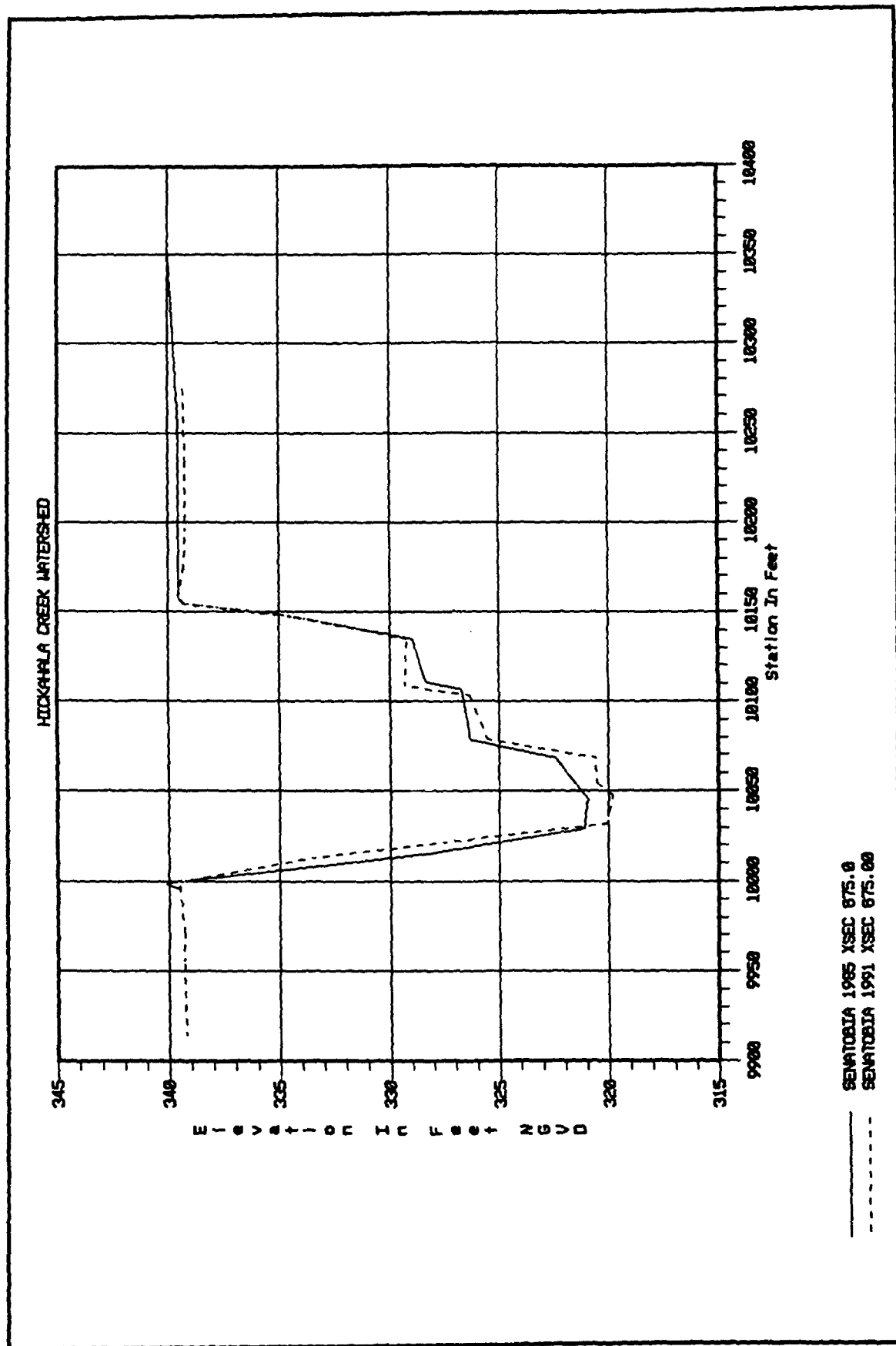
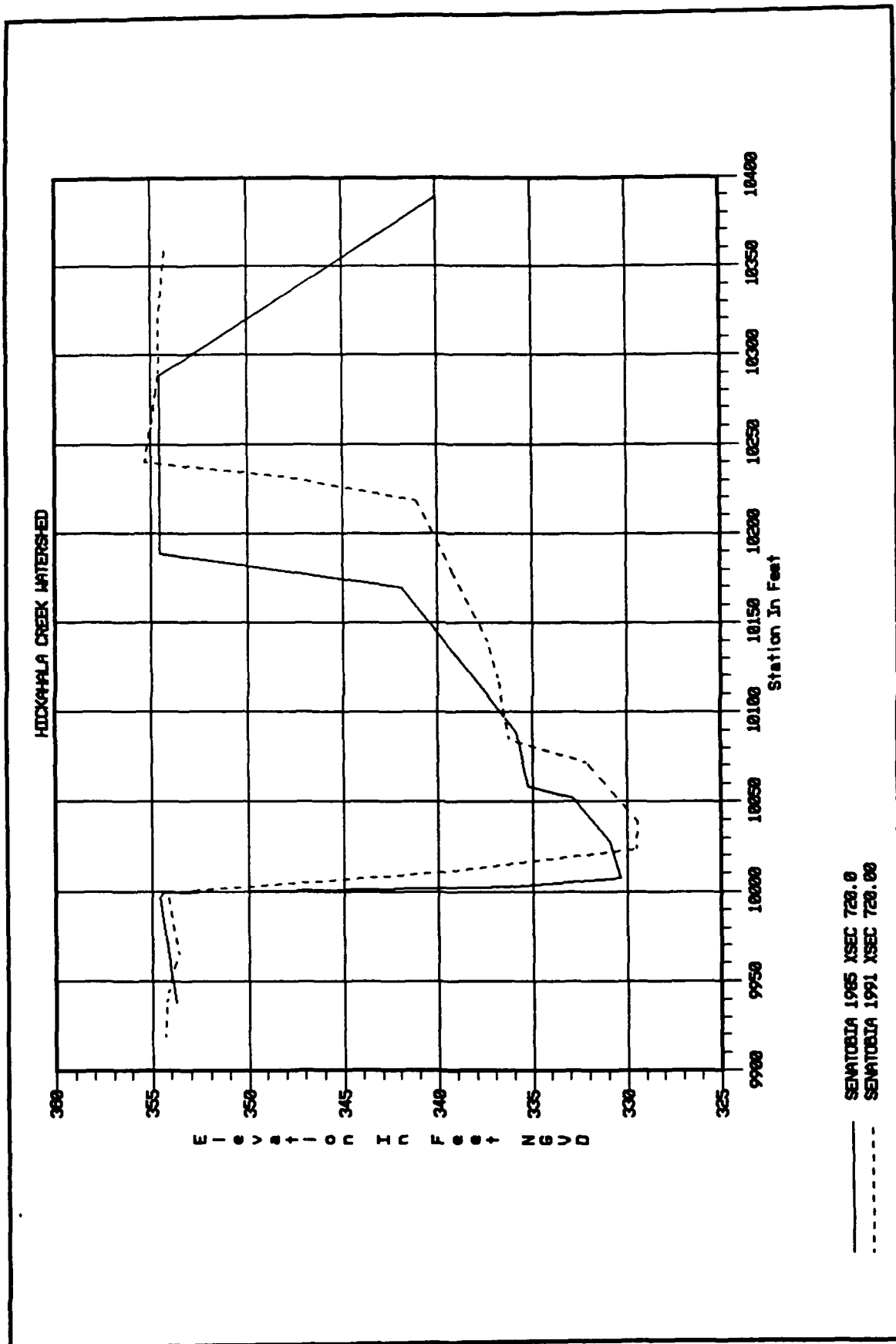
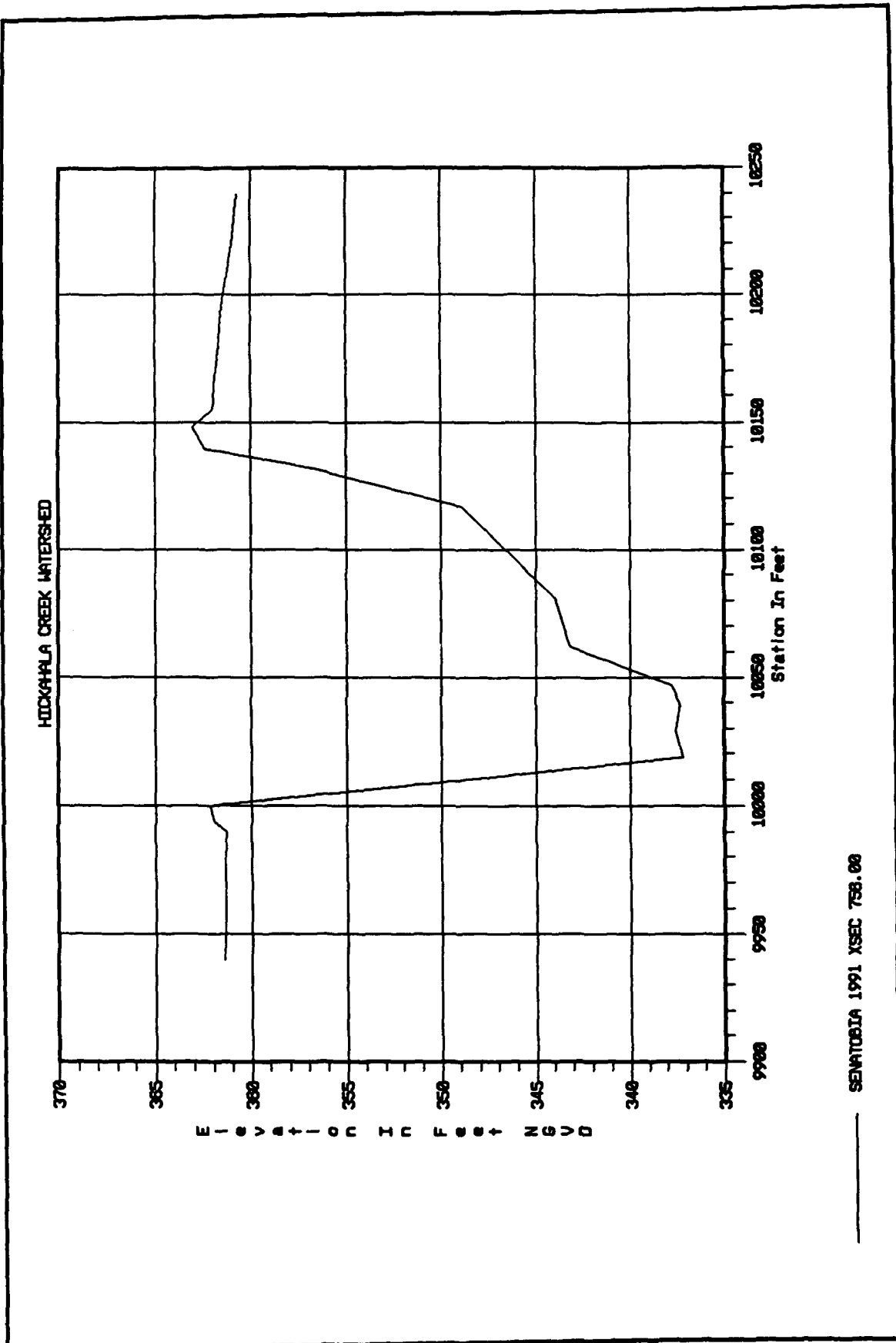
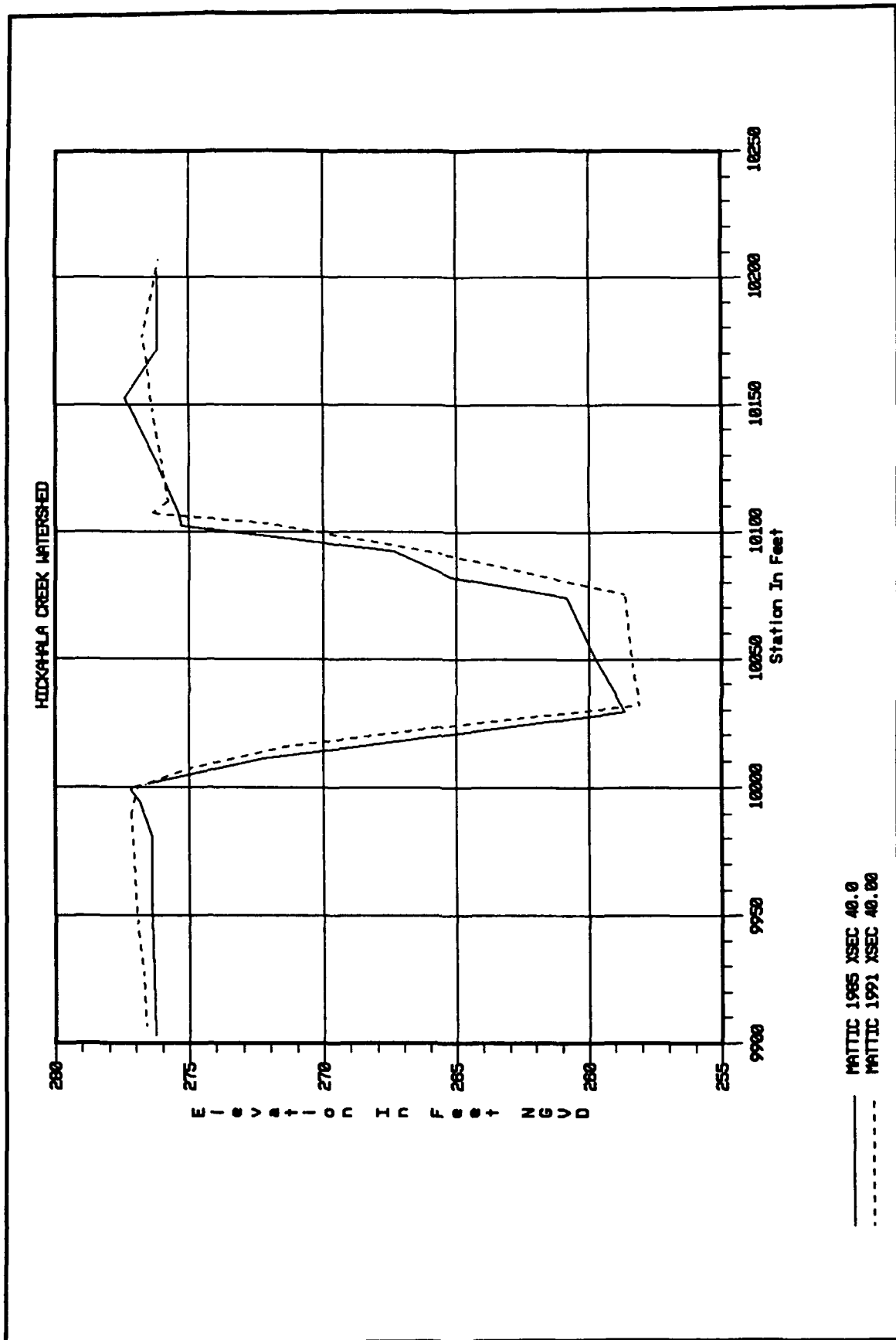


PLATE A124







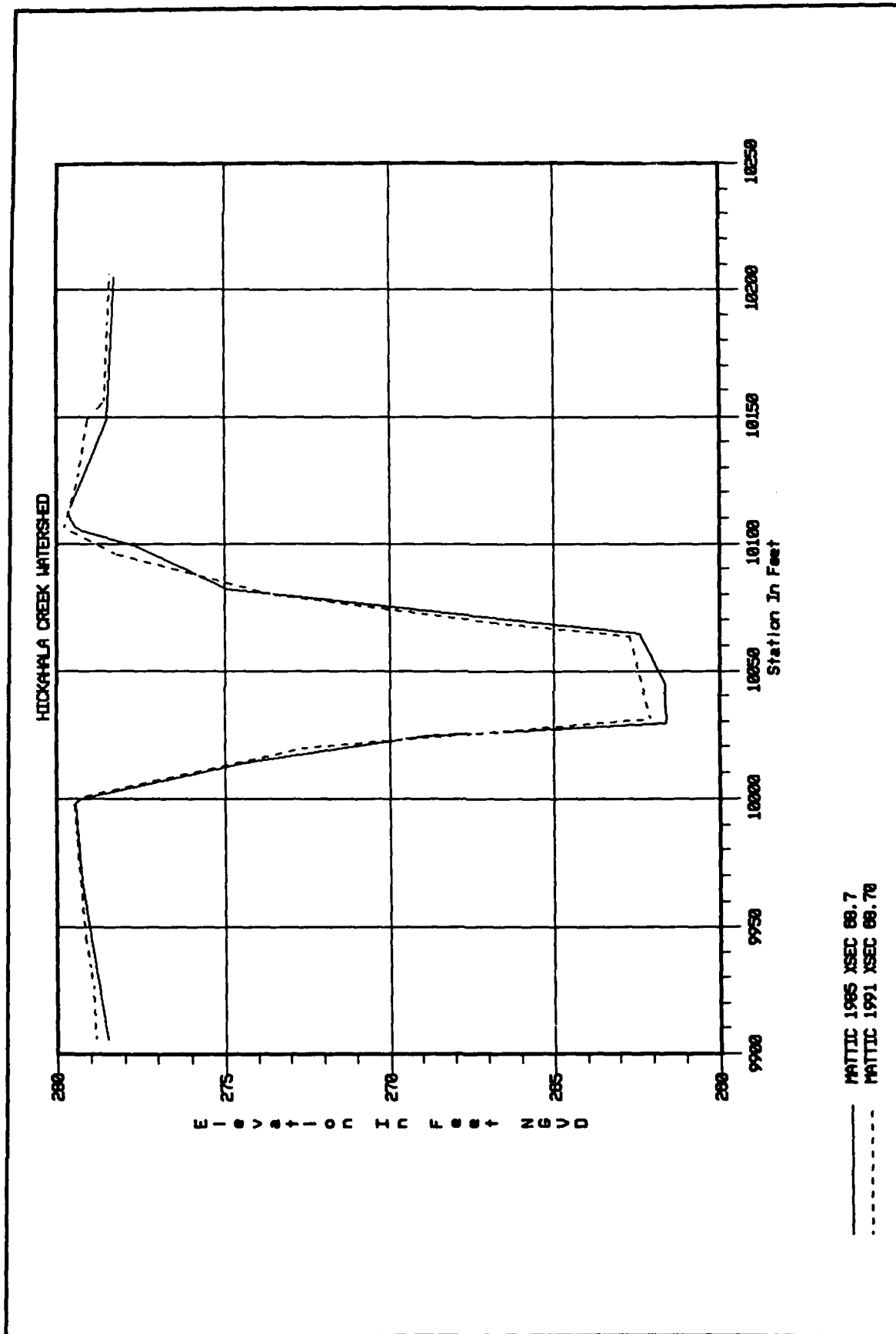
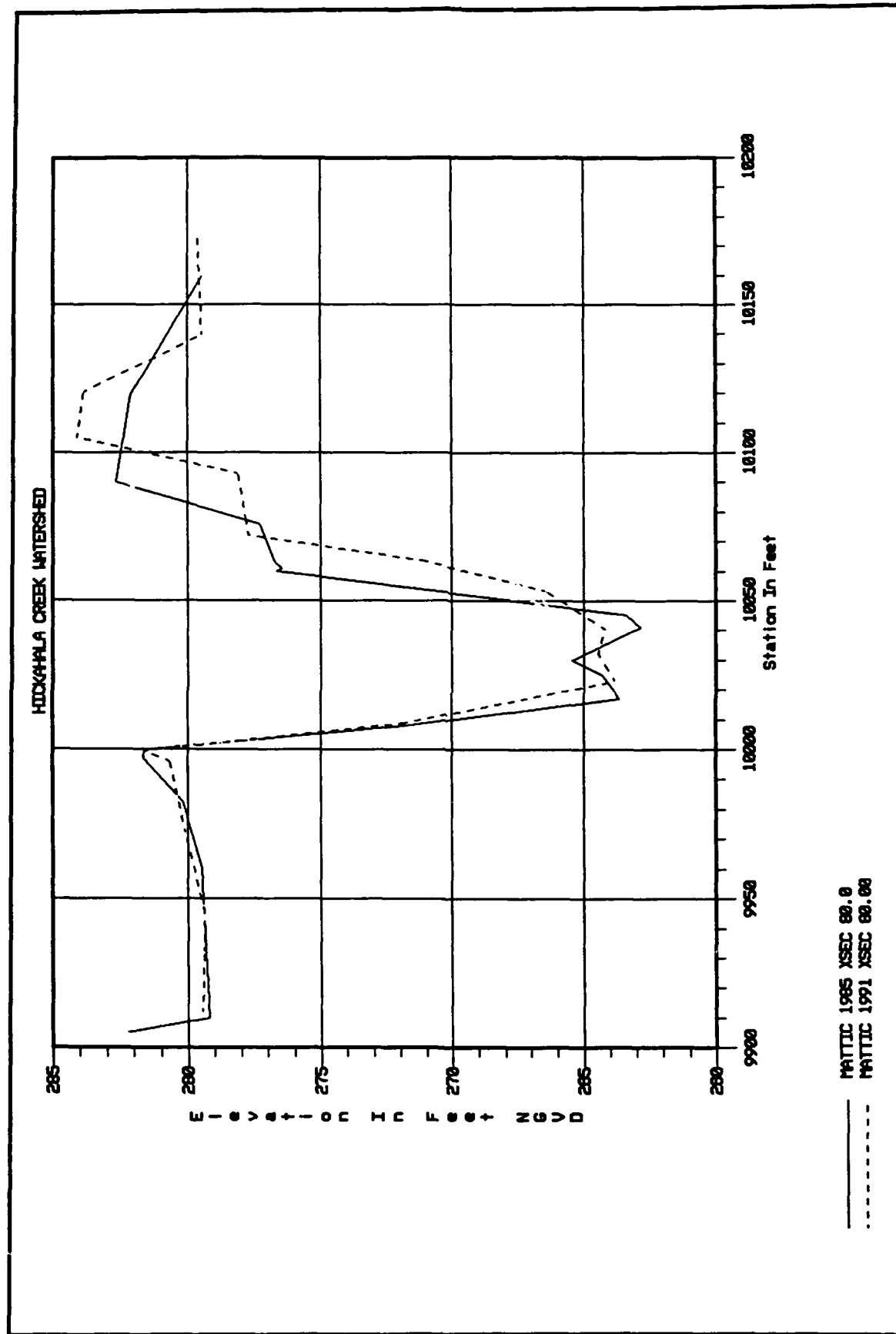


PLATE A128



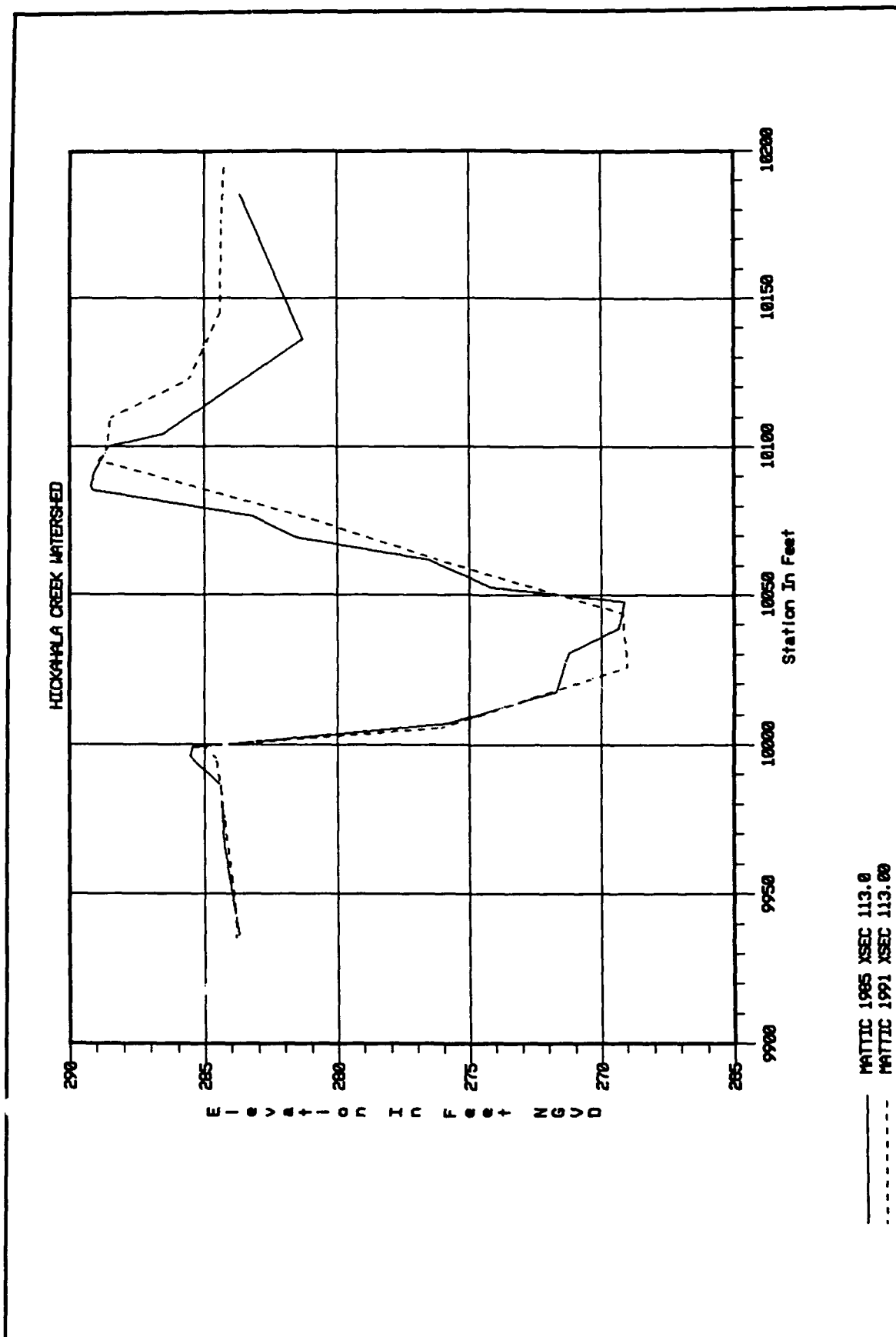
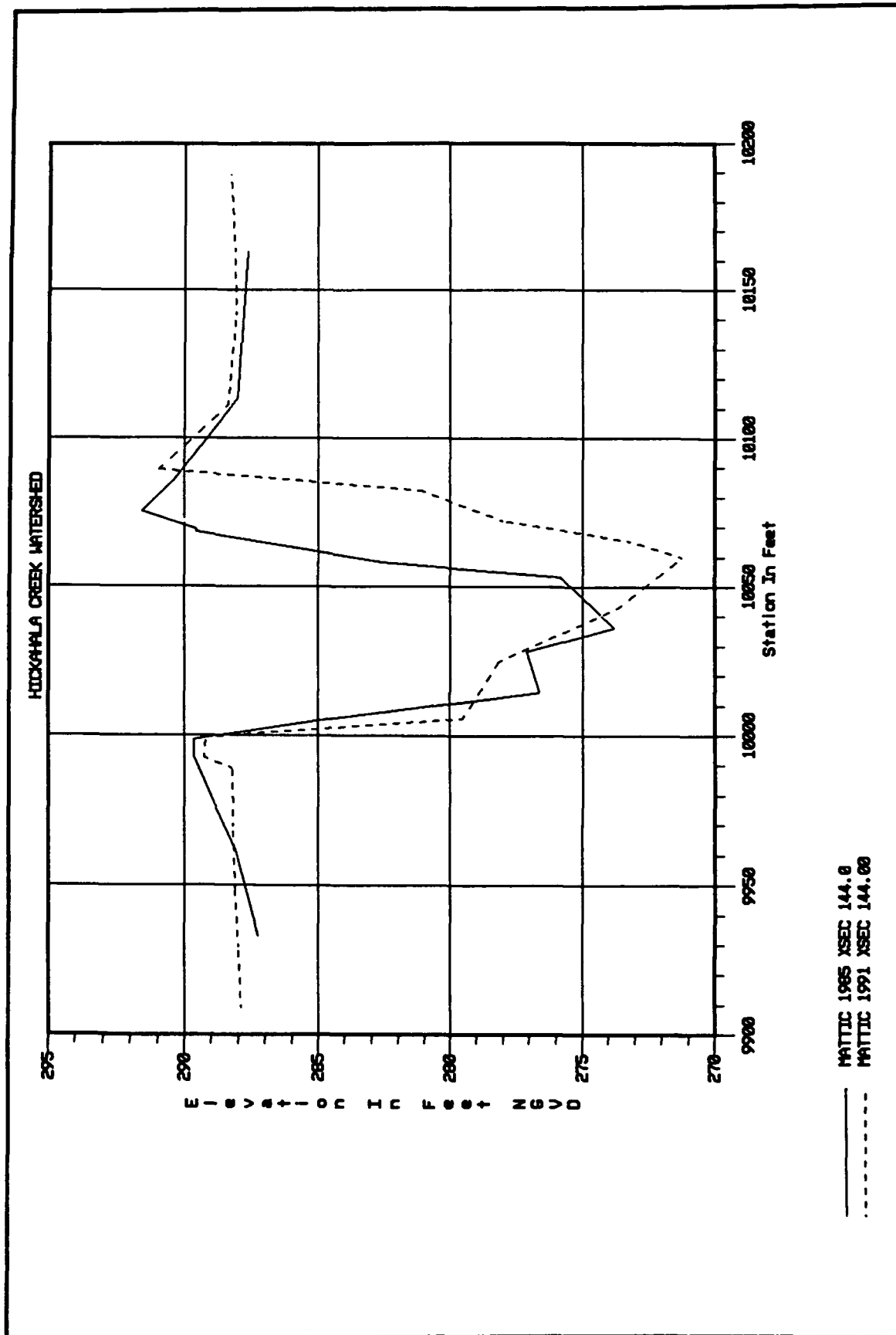


PLATE A130



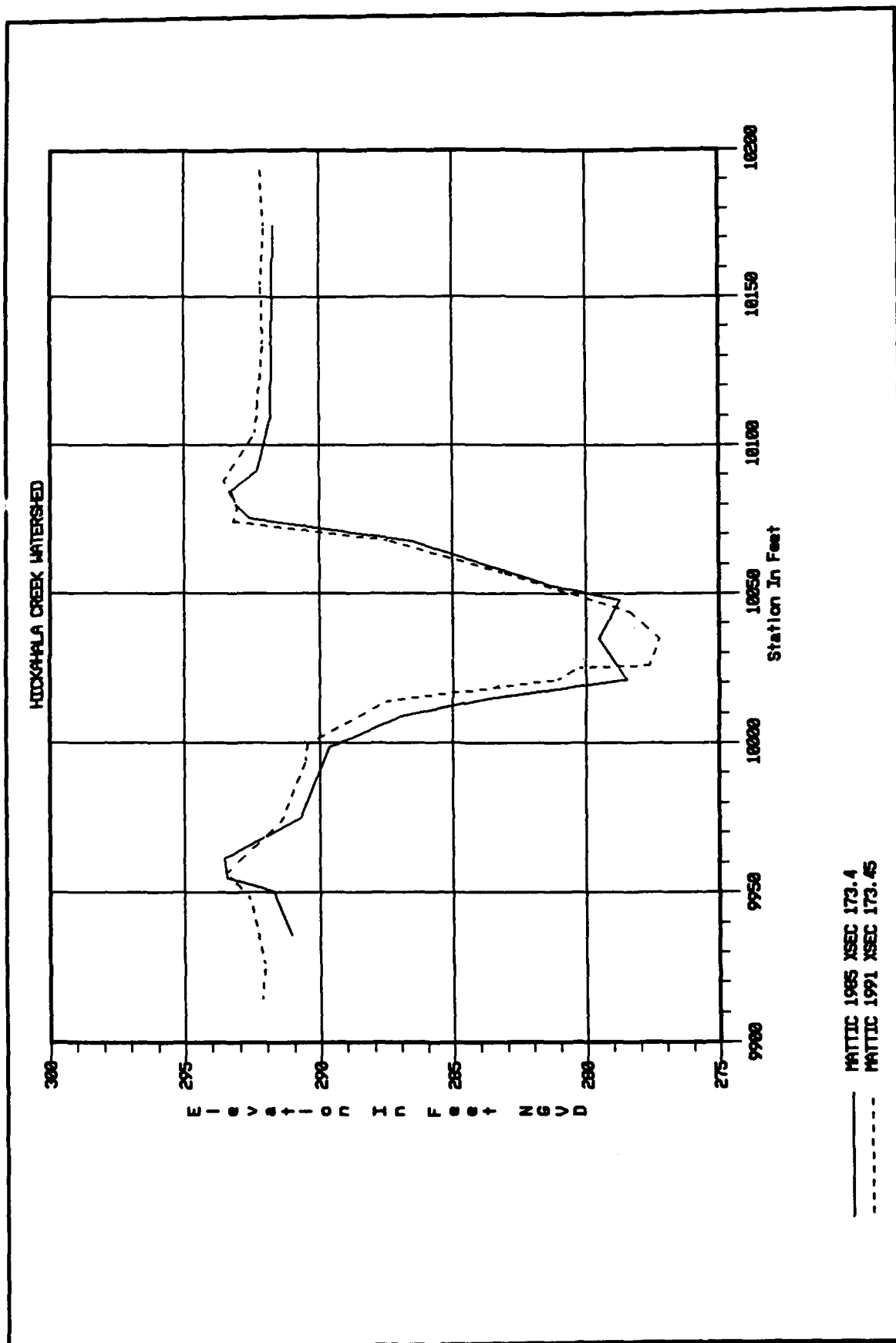
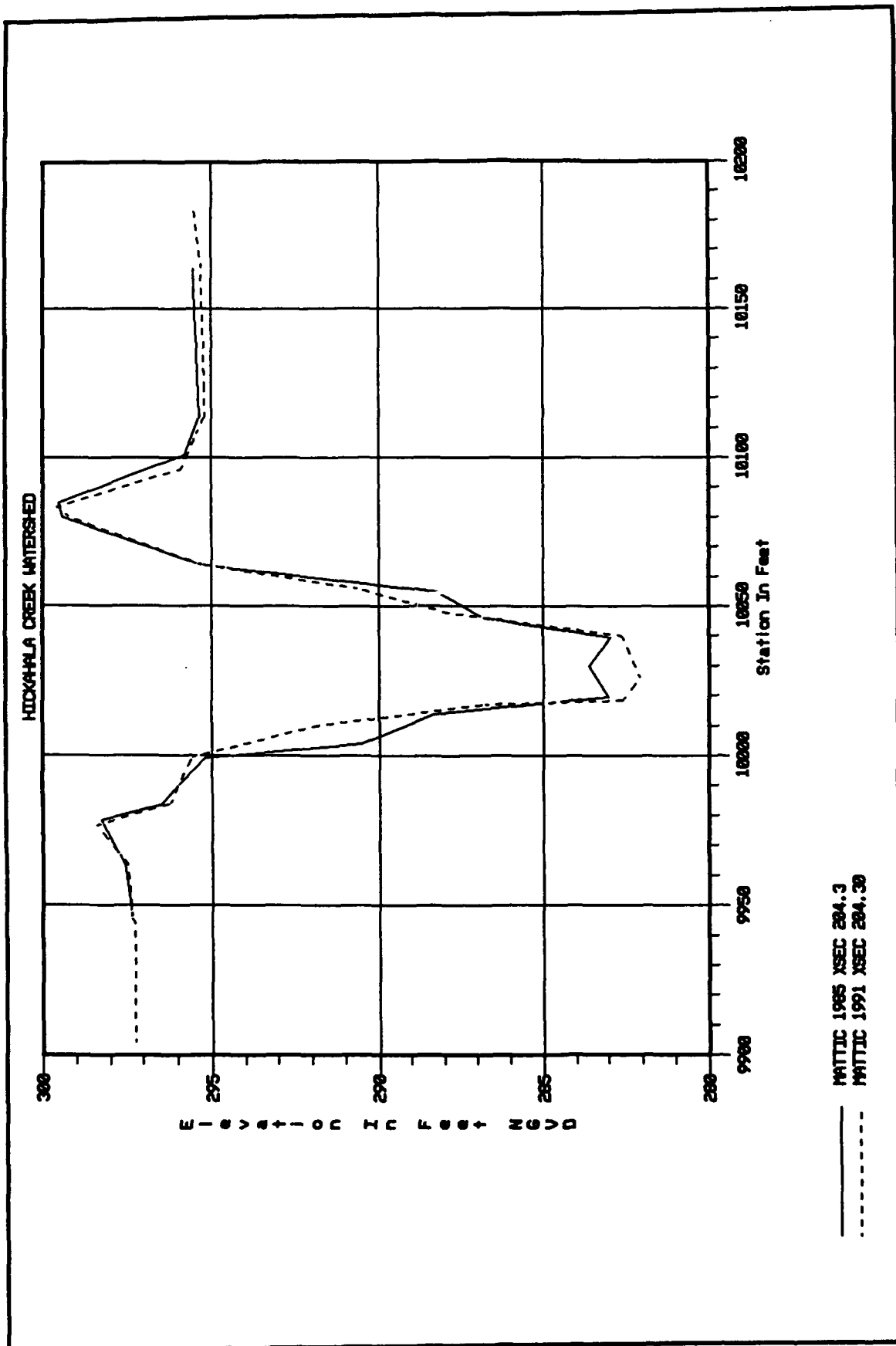


PLATE A132



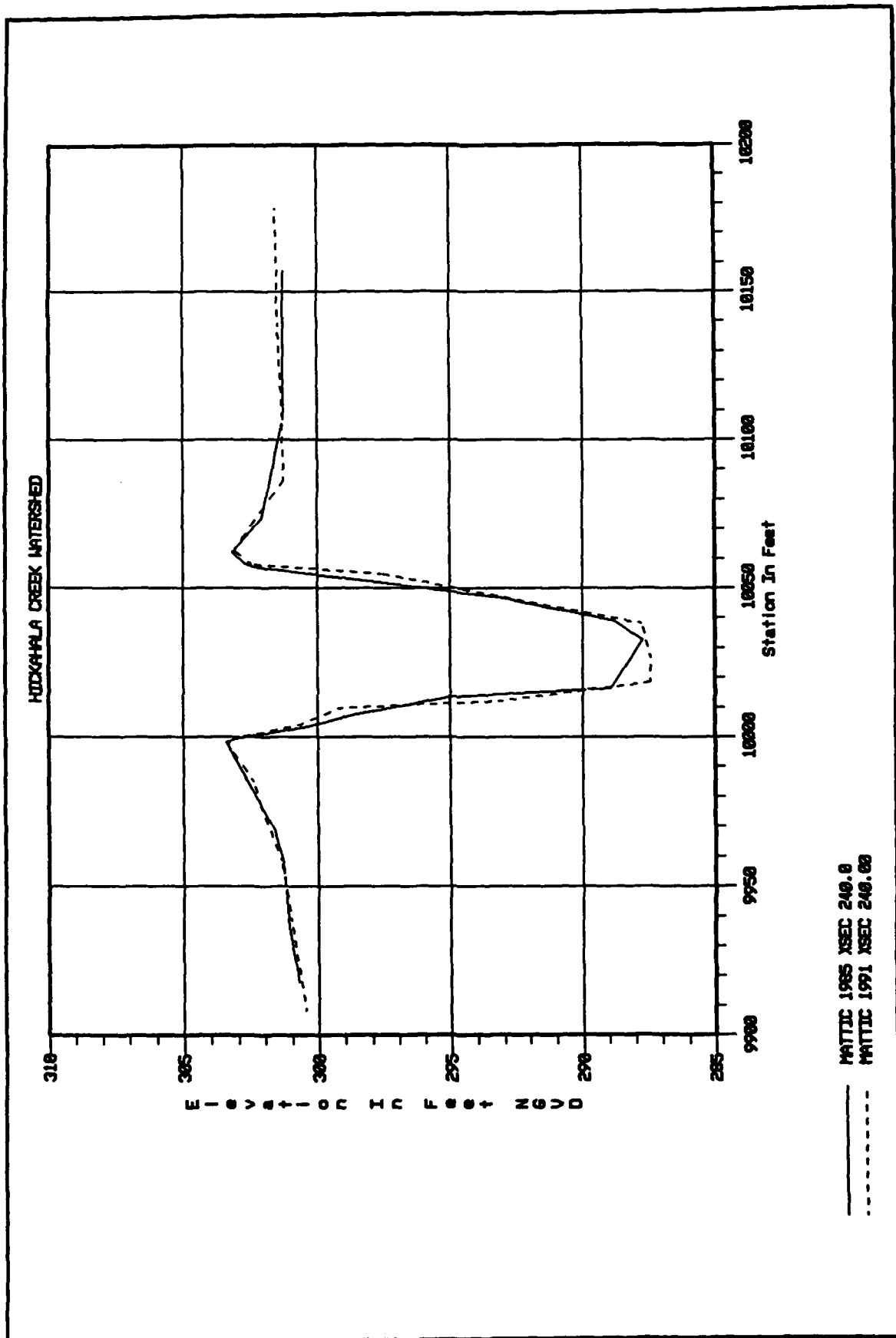
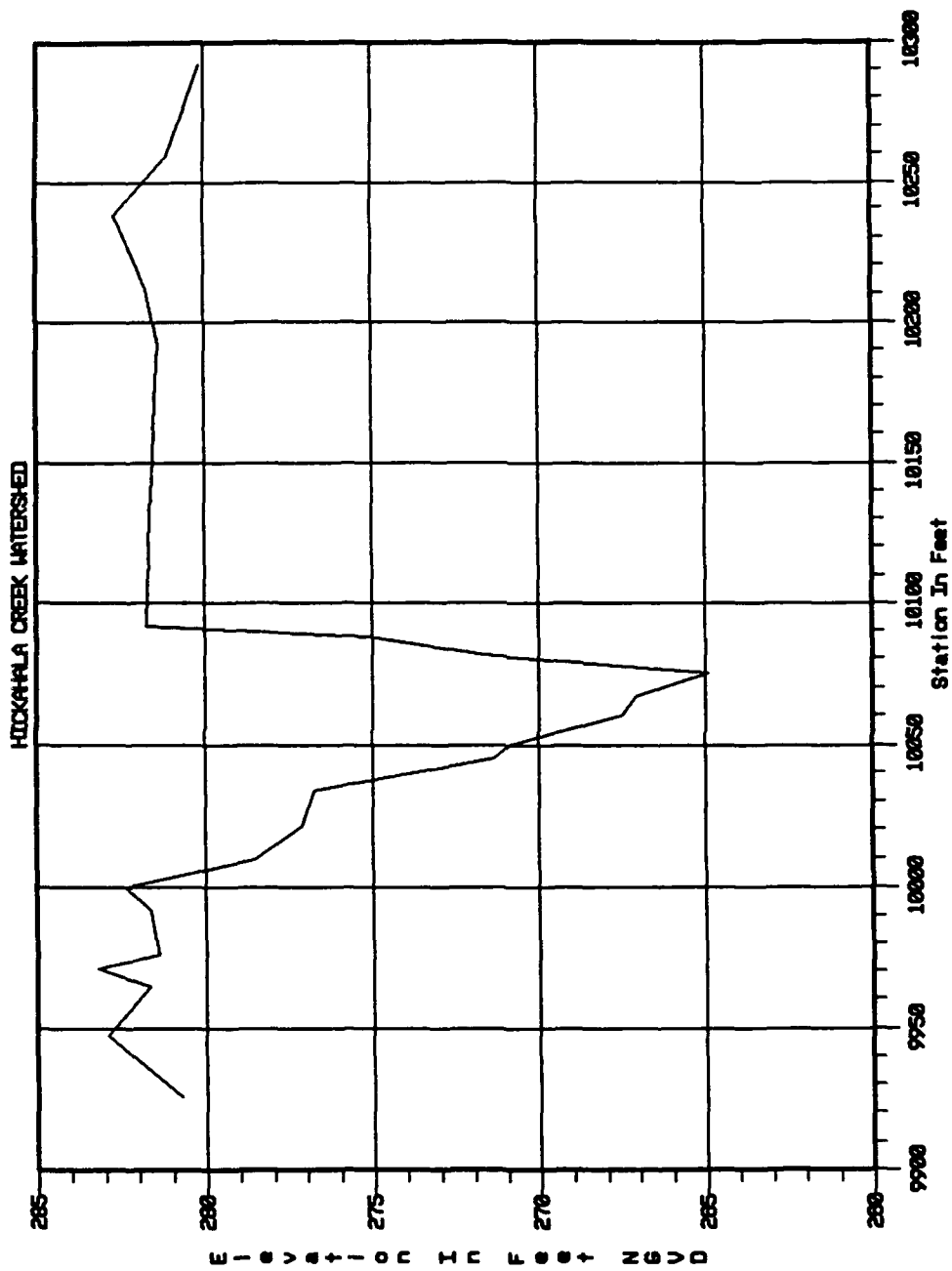
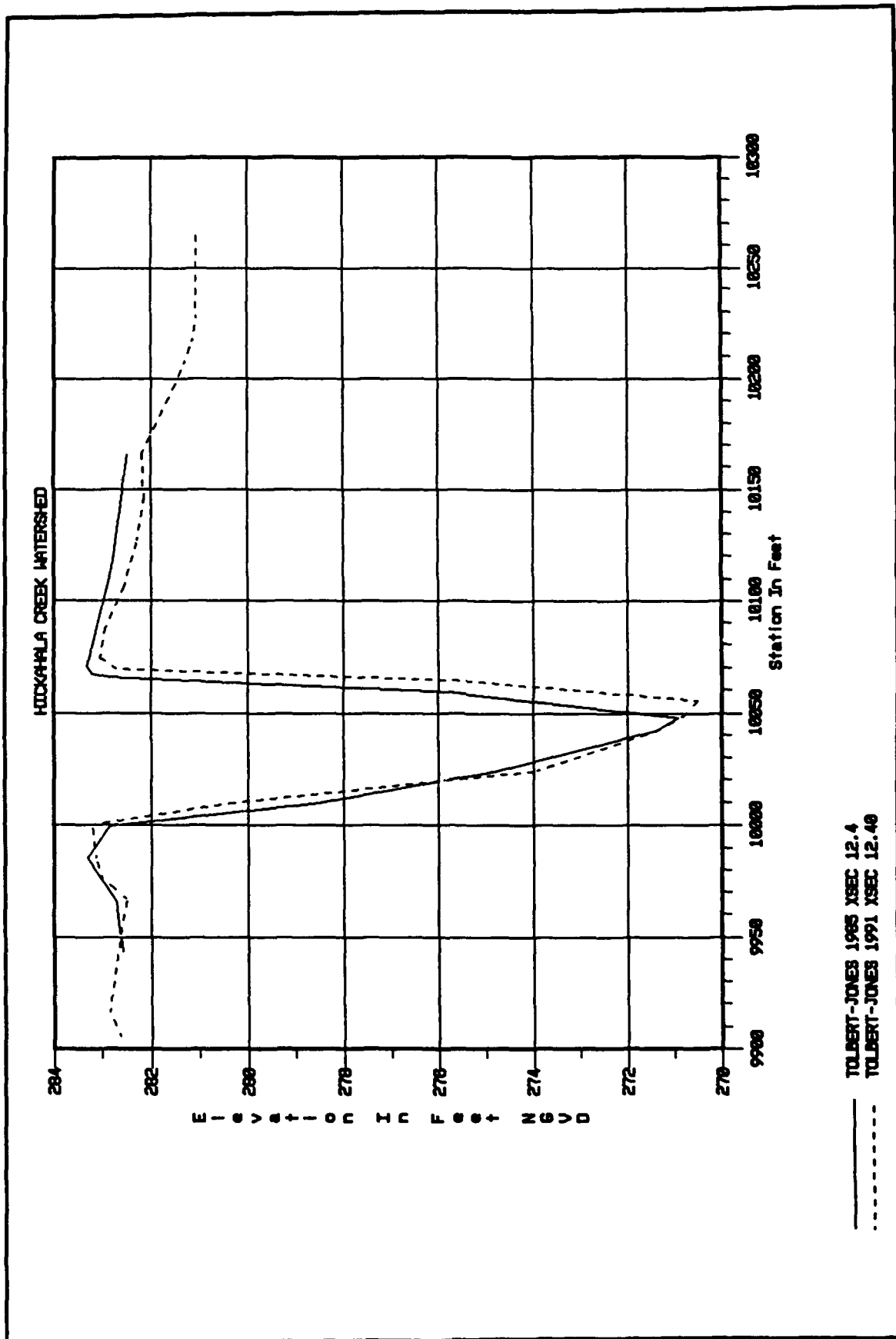
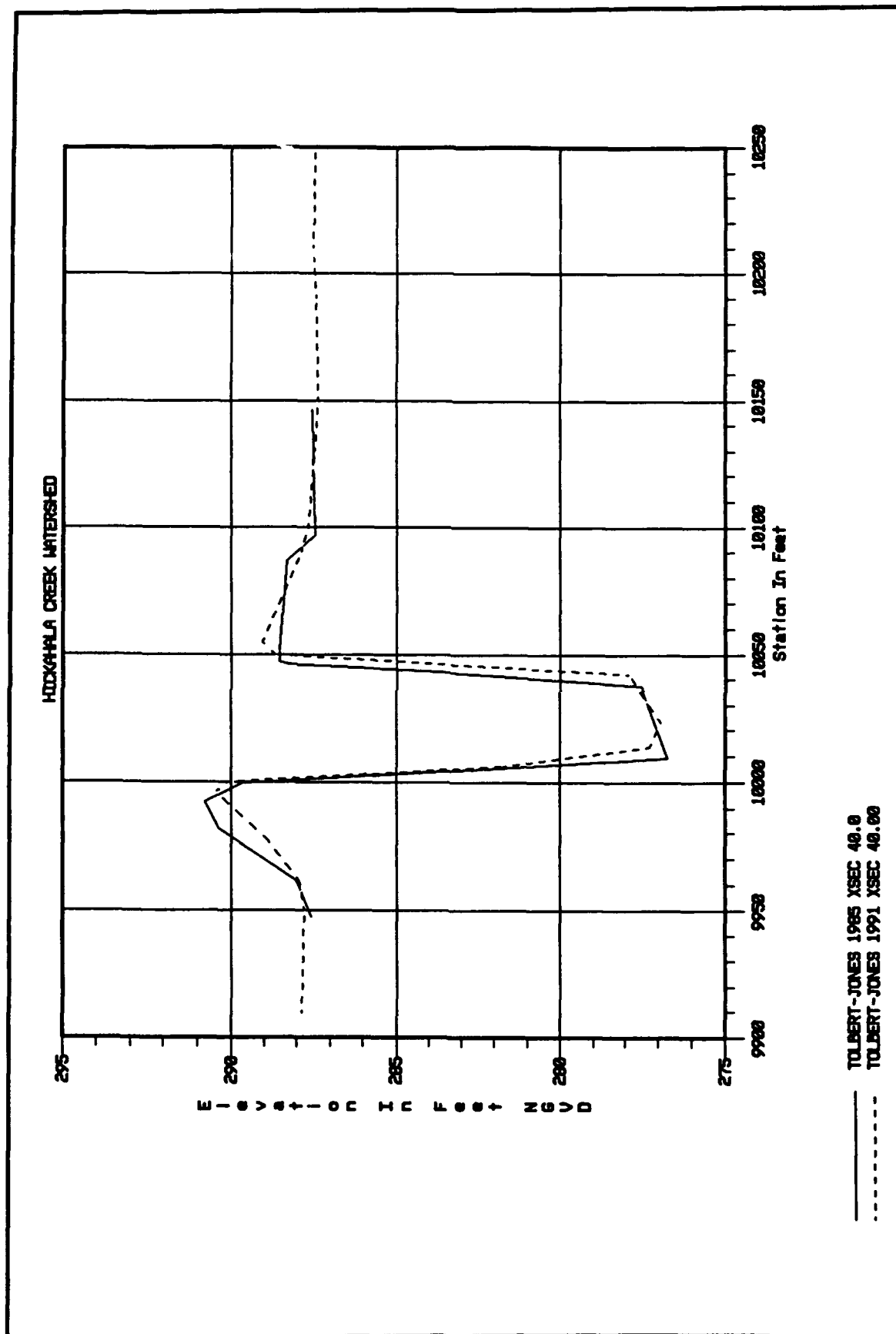


PLATE A134



—— TOLBERT-JONES 1991 XSEC 0.80





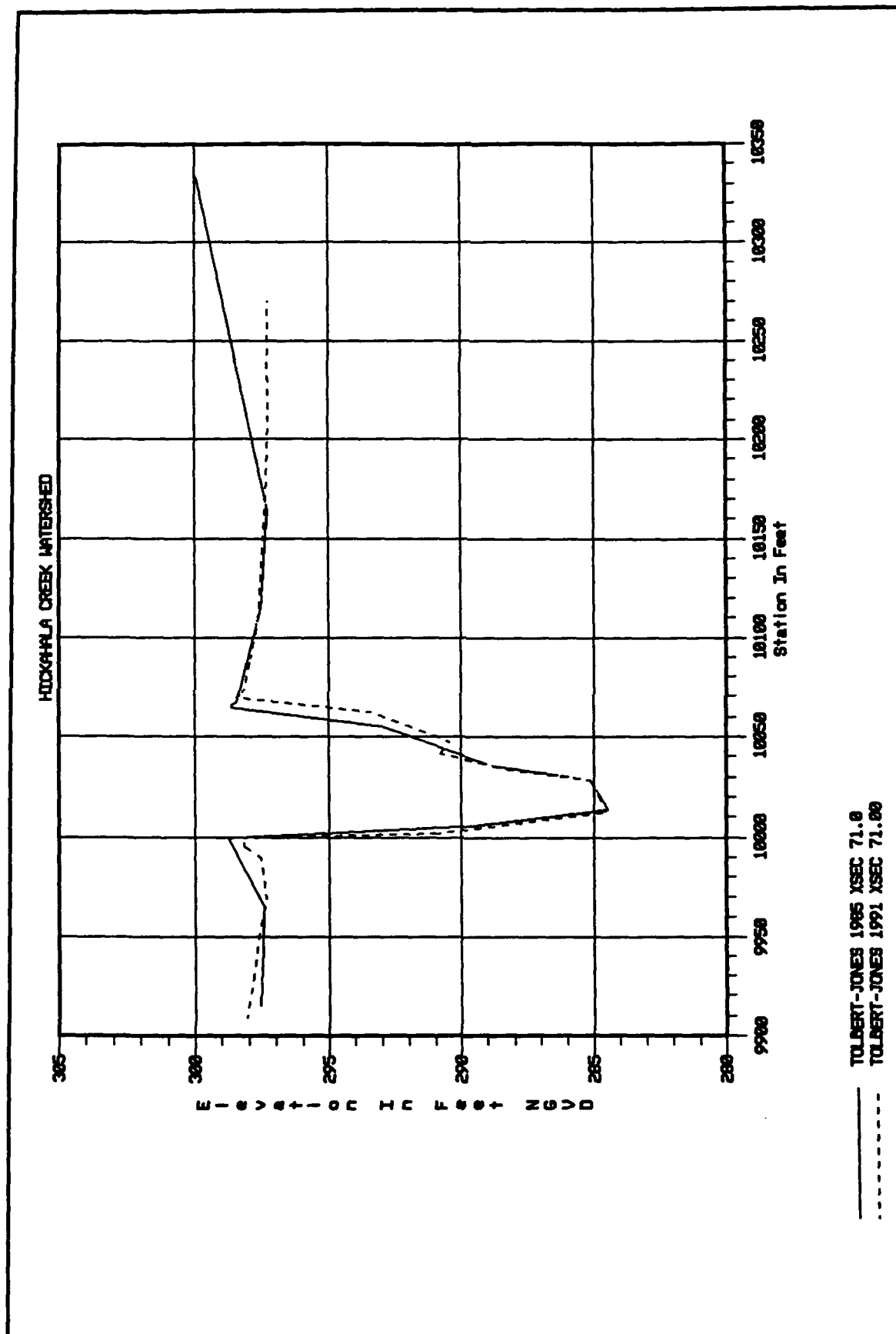
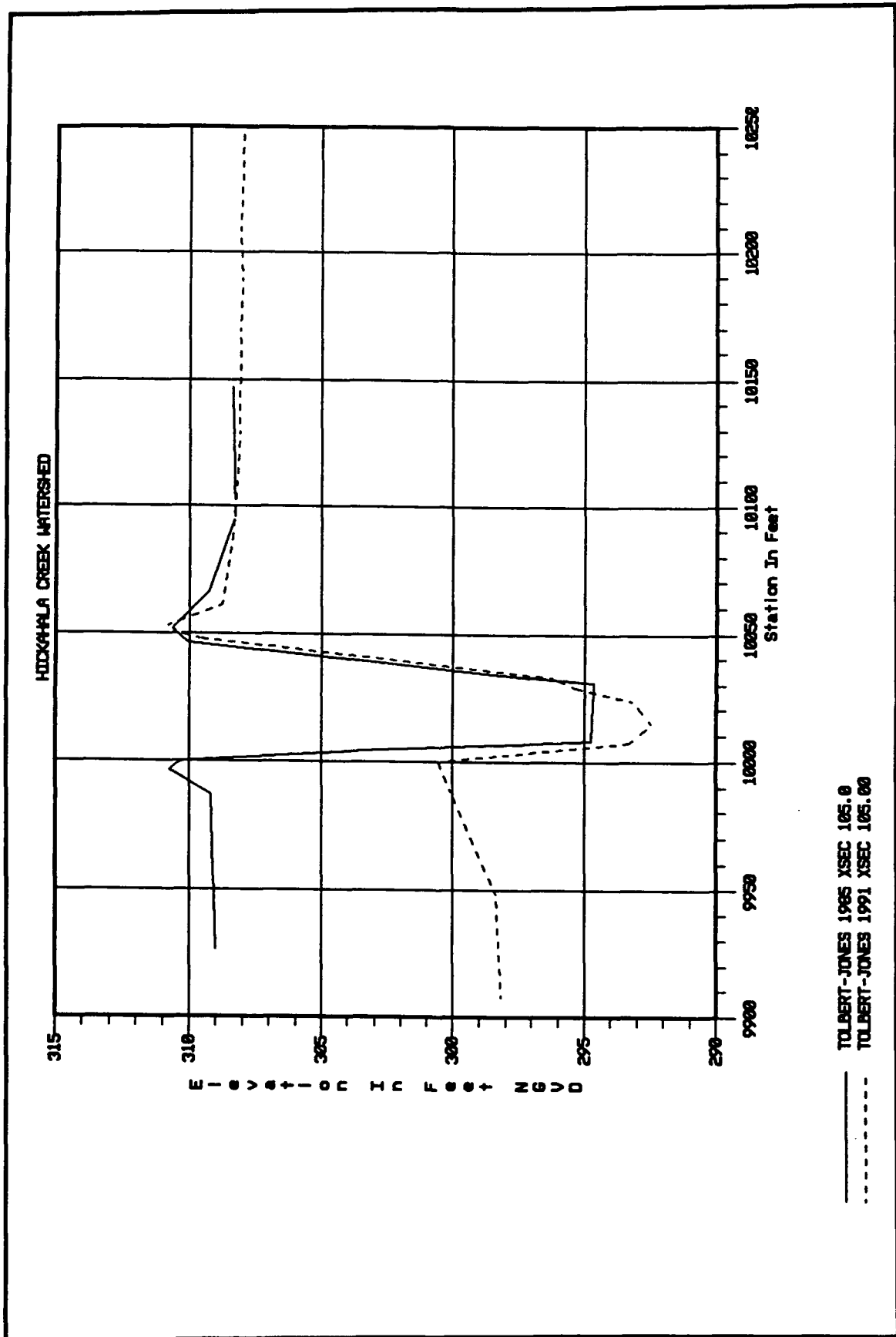


PLATE A138



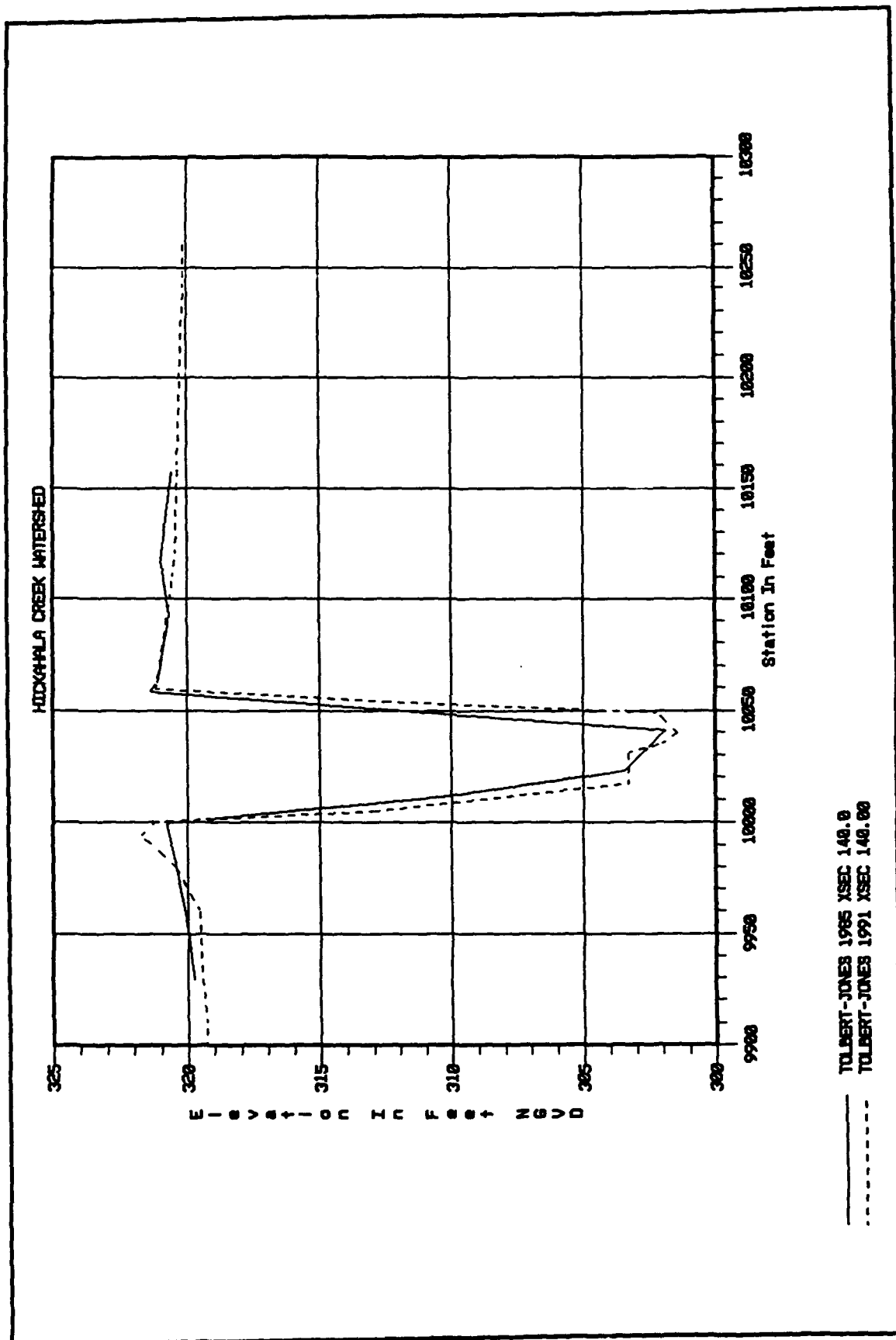
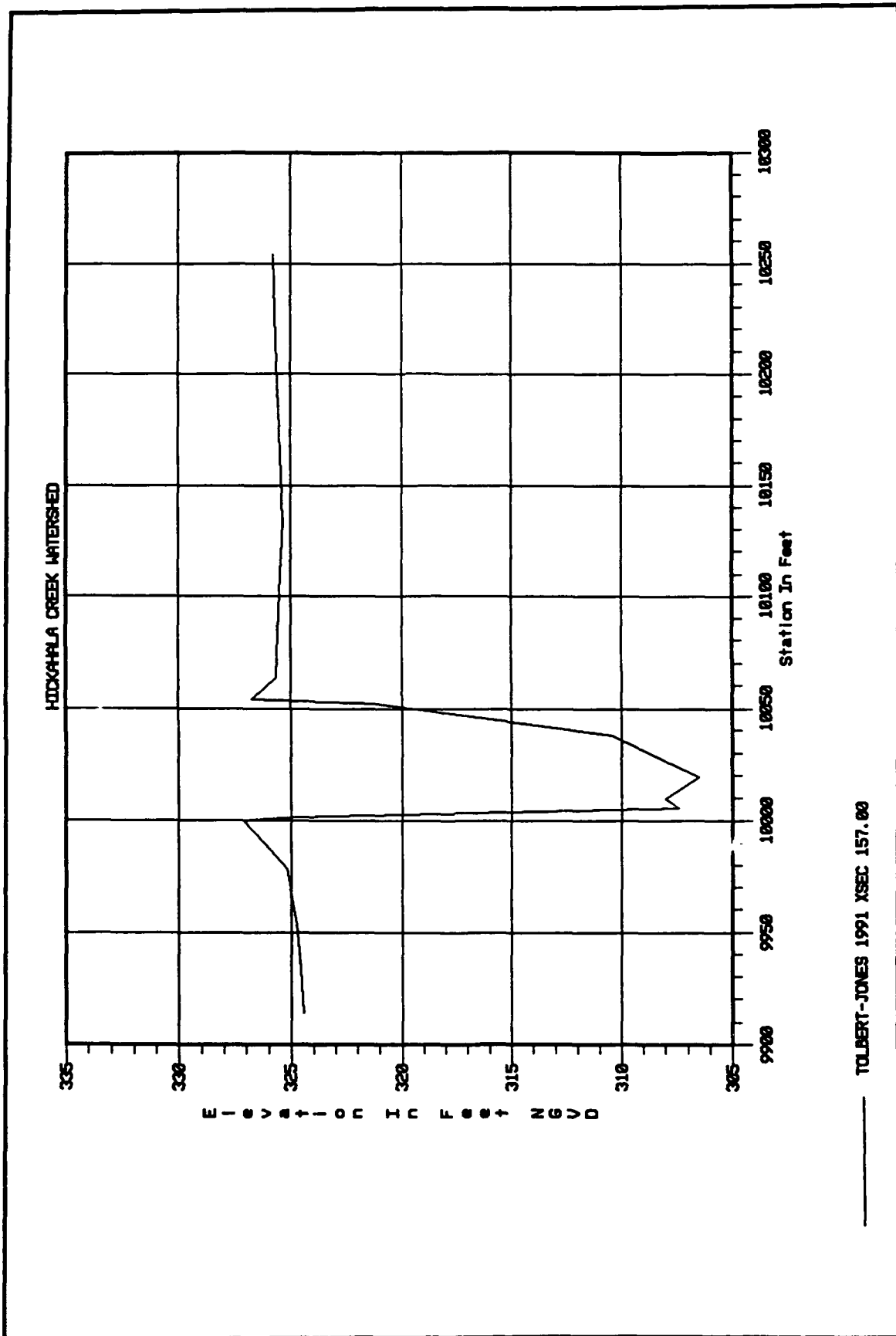


PLATE A140



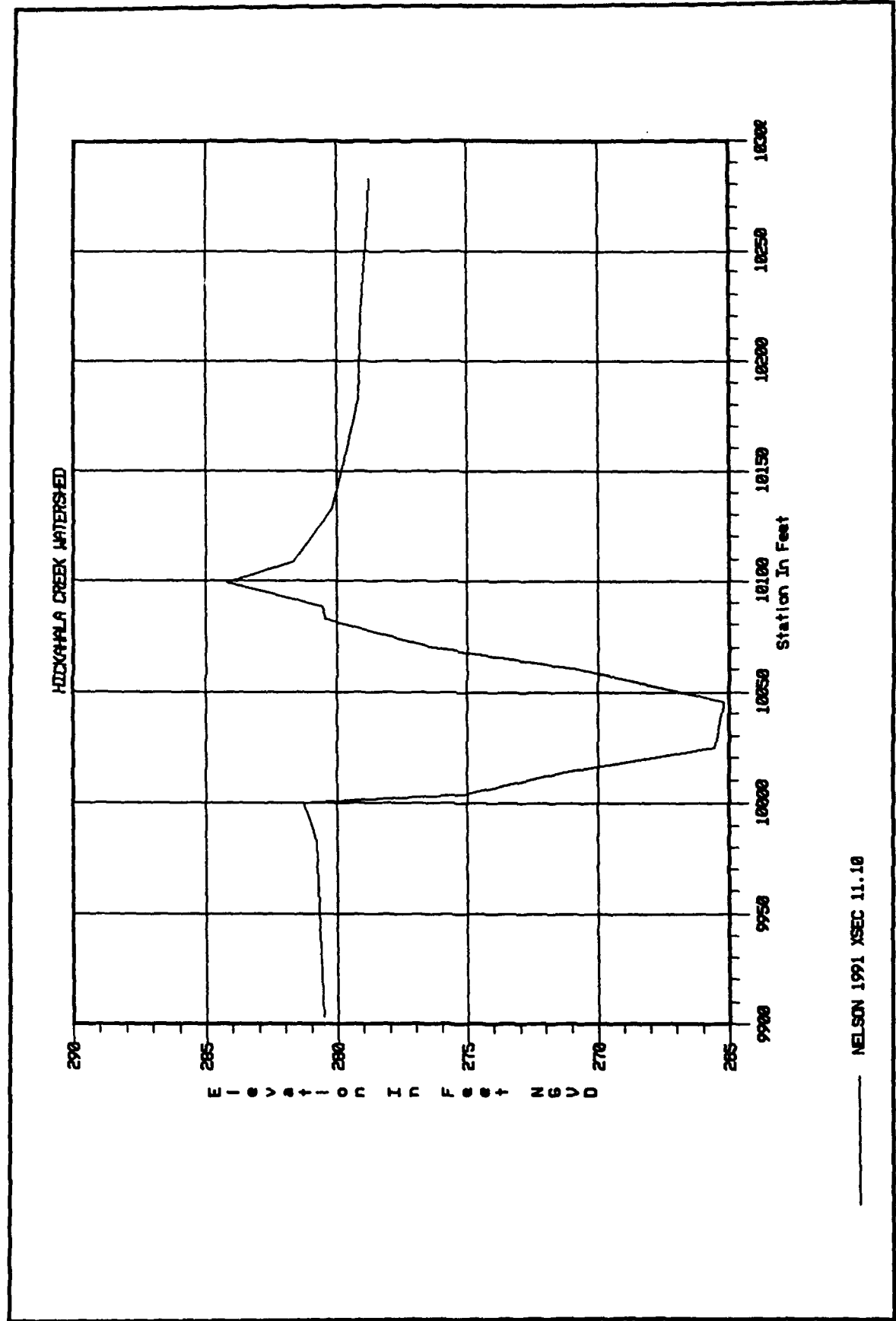
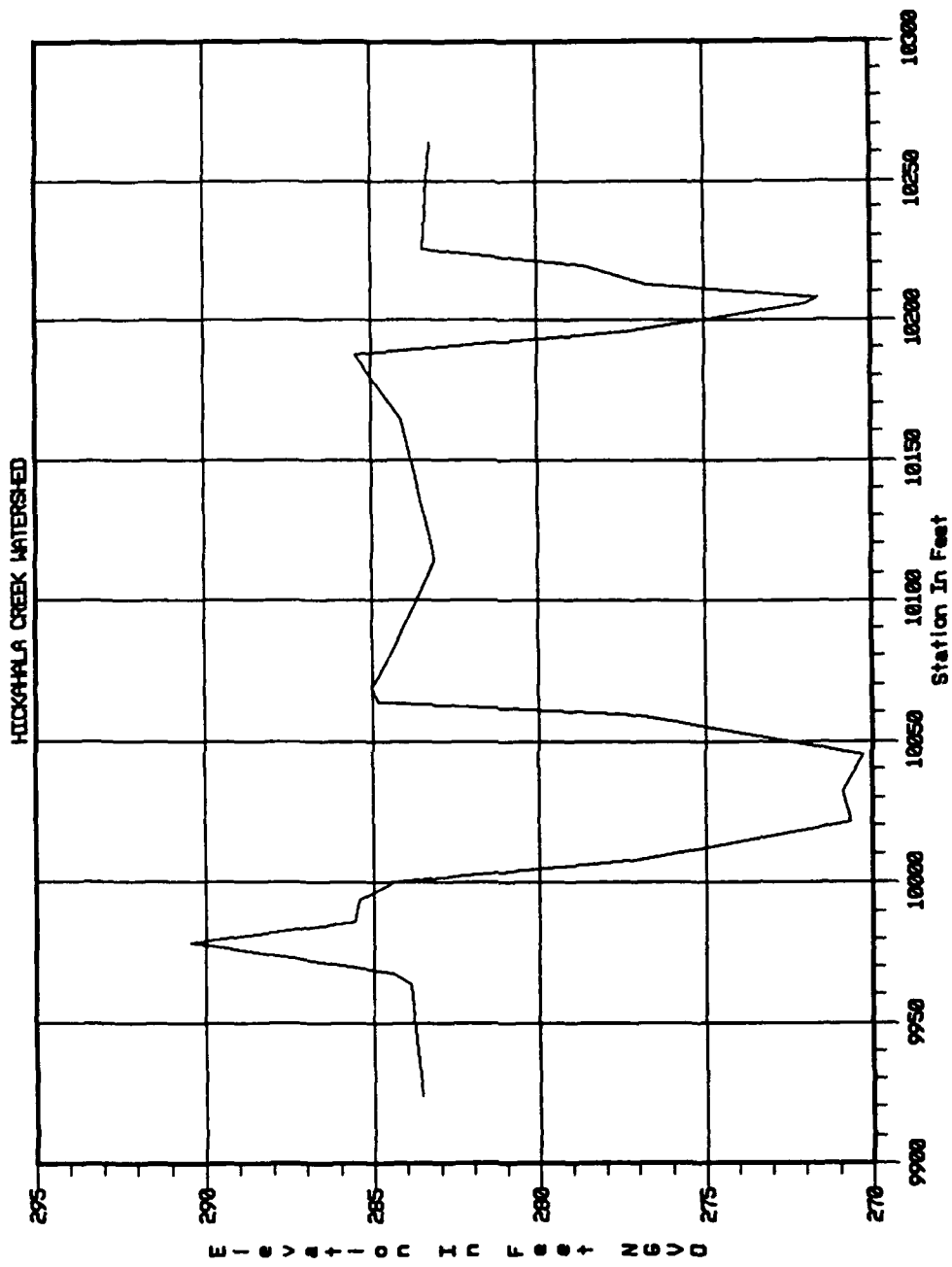


PLATE A142



NELSON 1991 XSEC 40.53

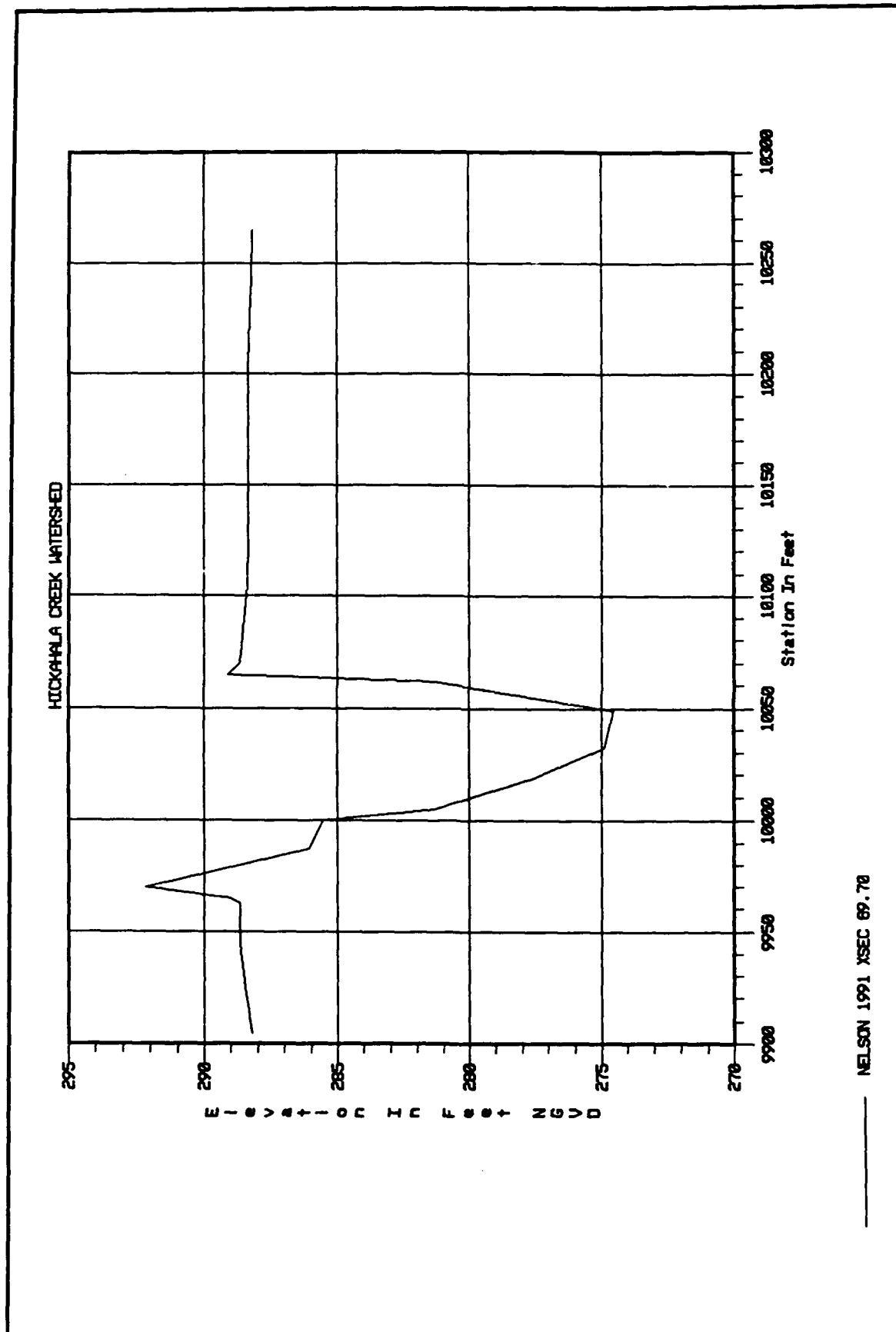
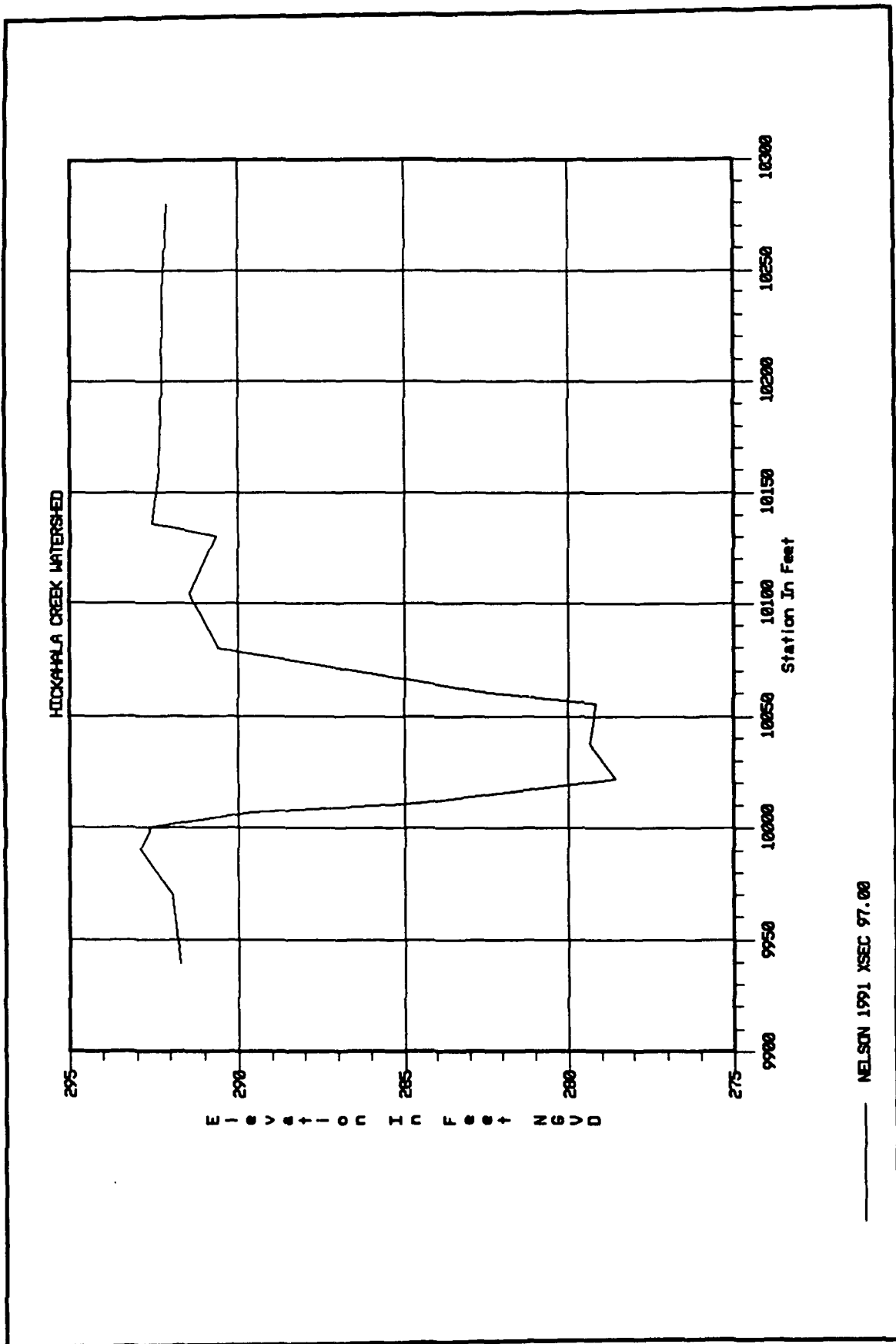
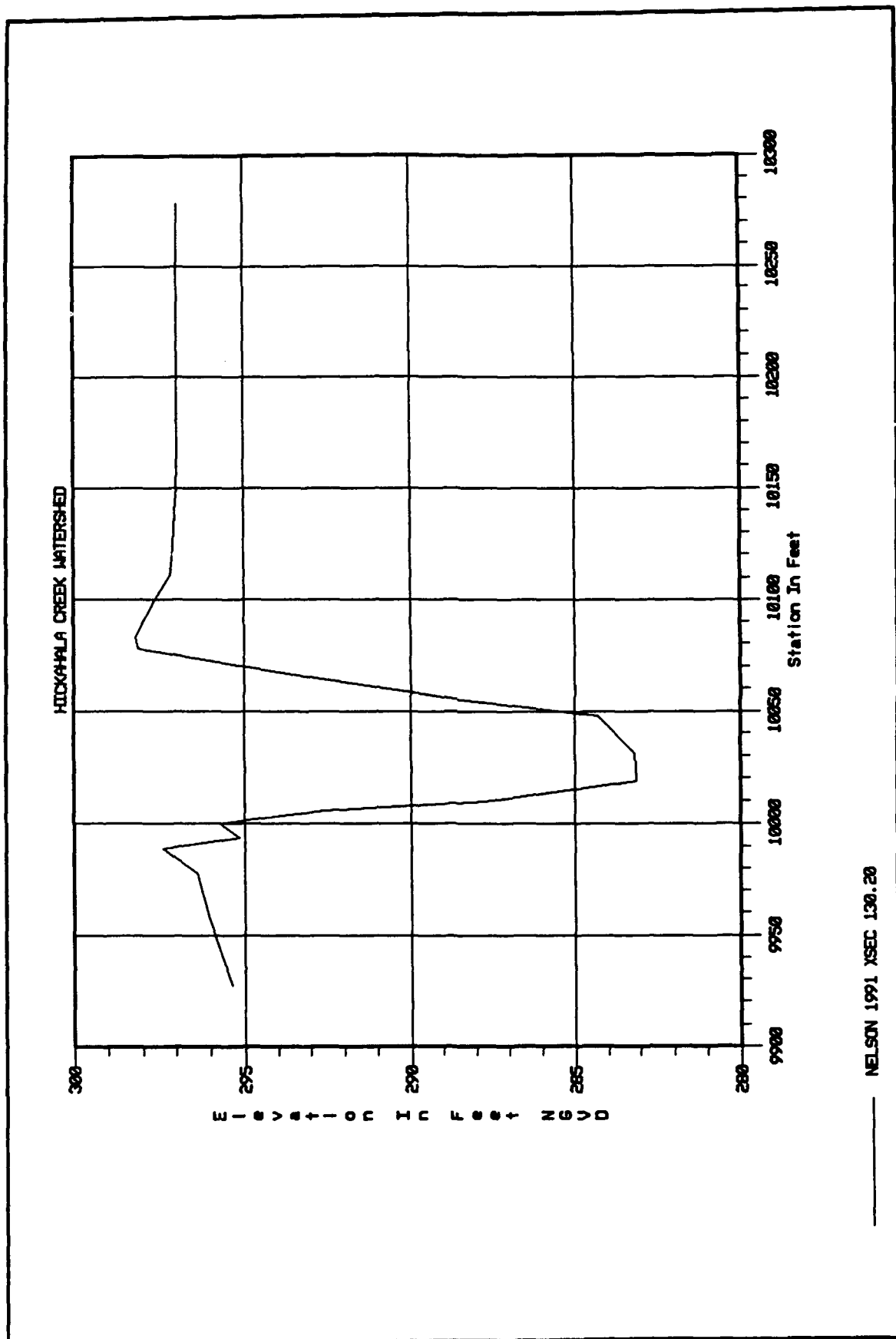
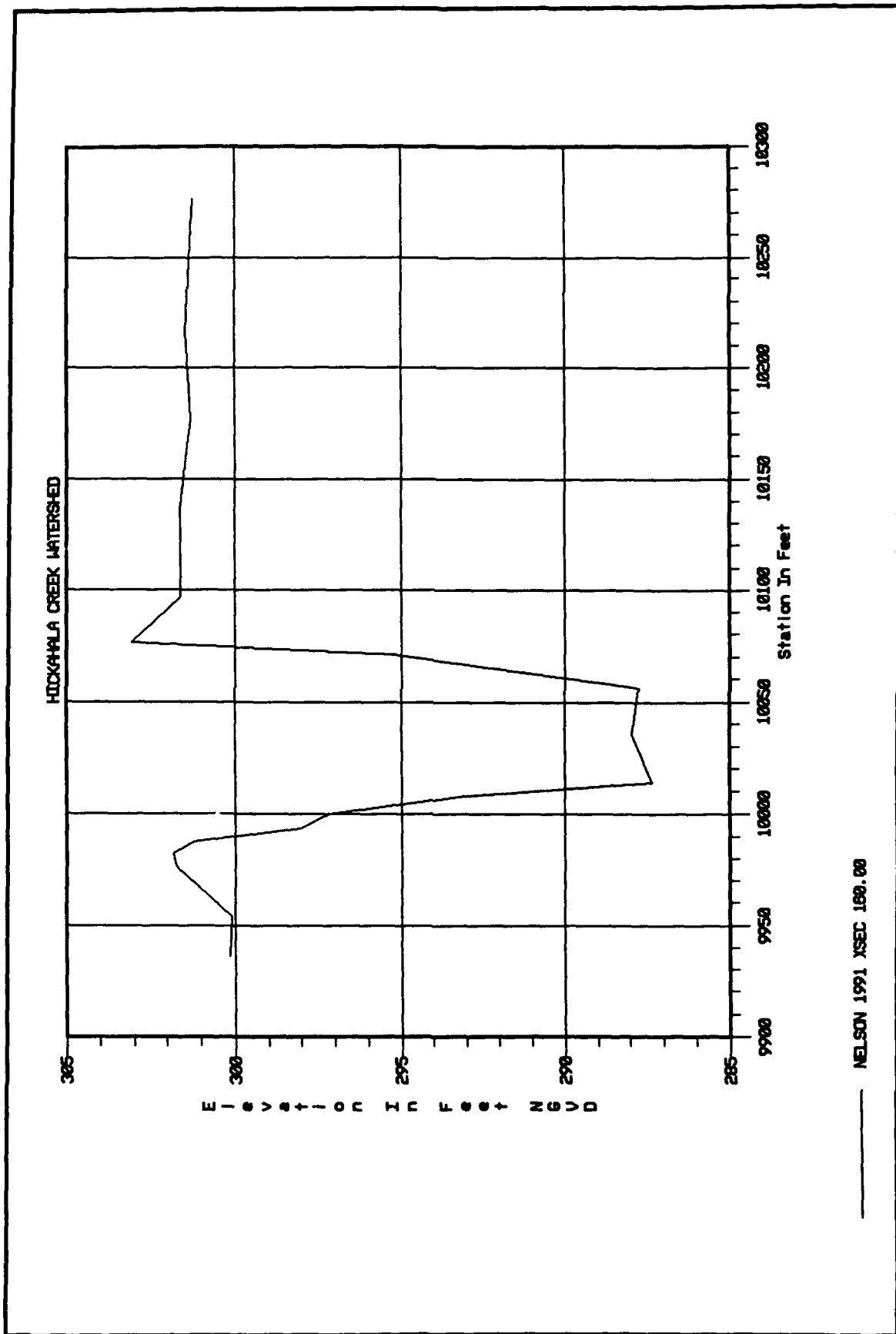


PLATE A144







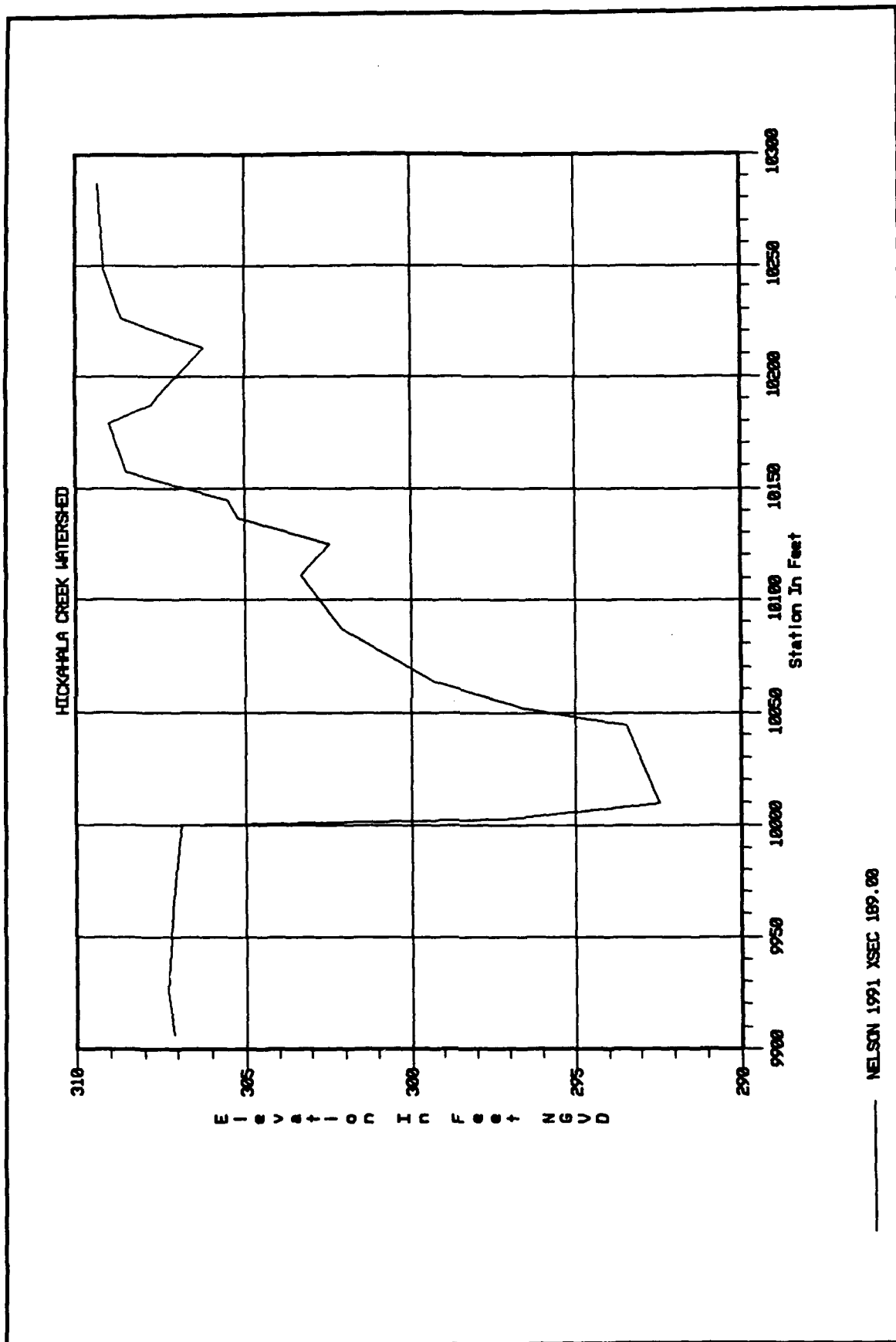
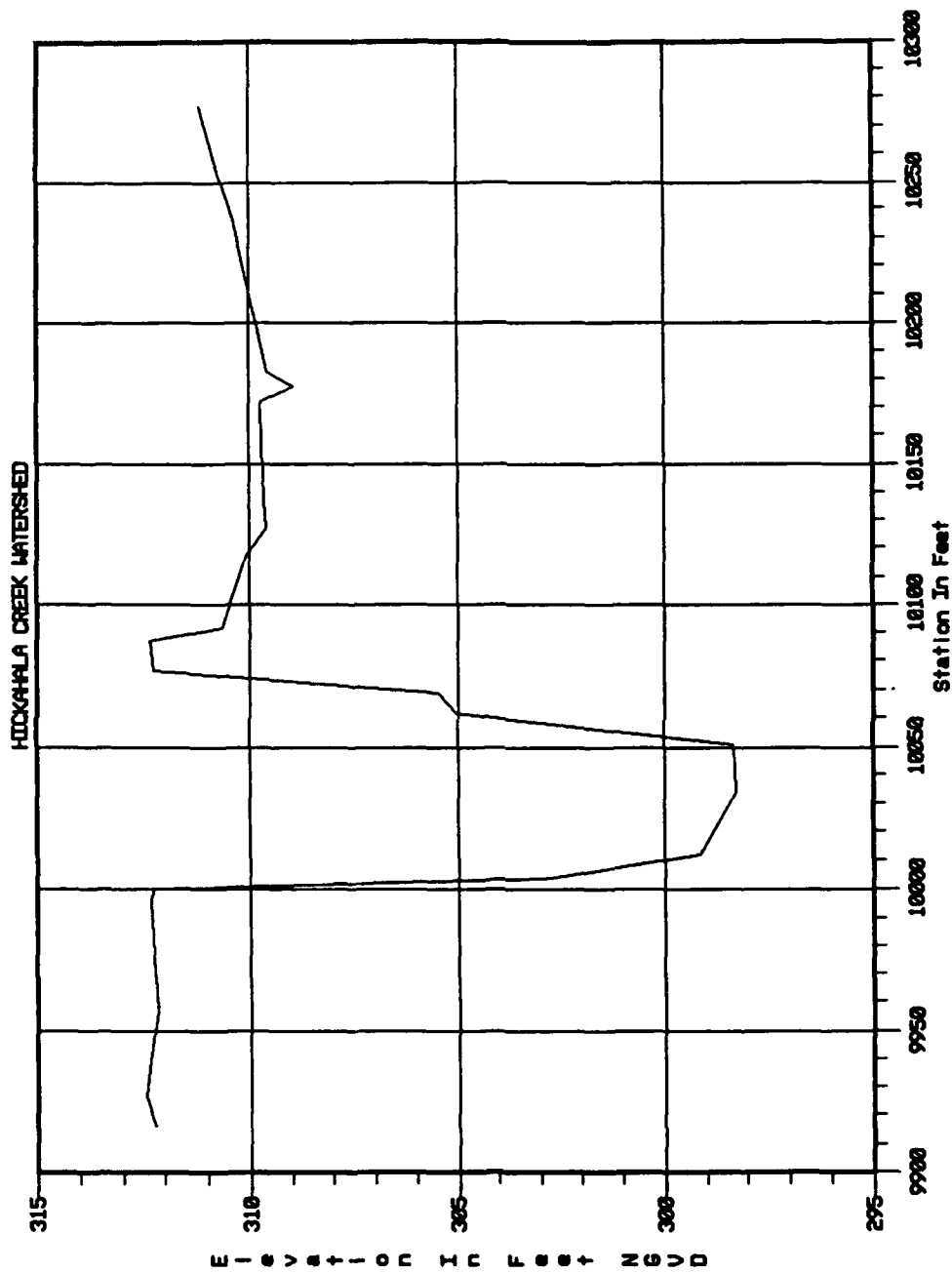
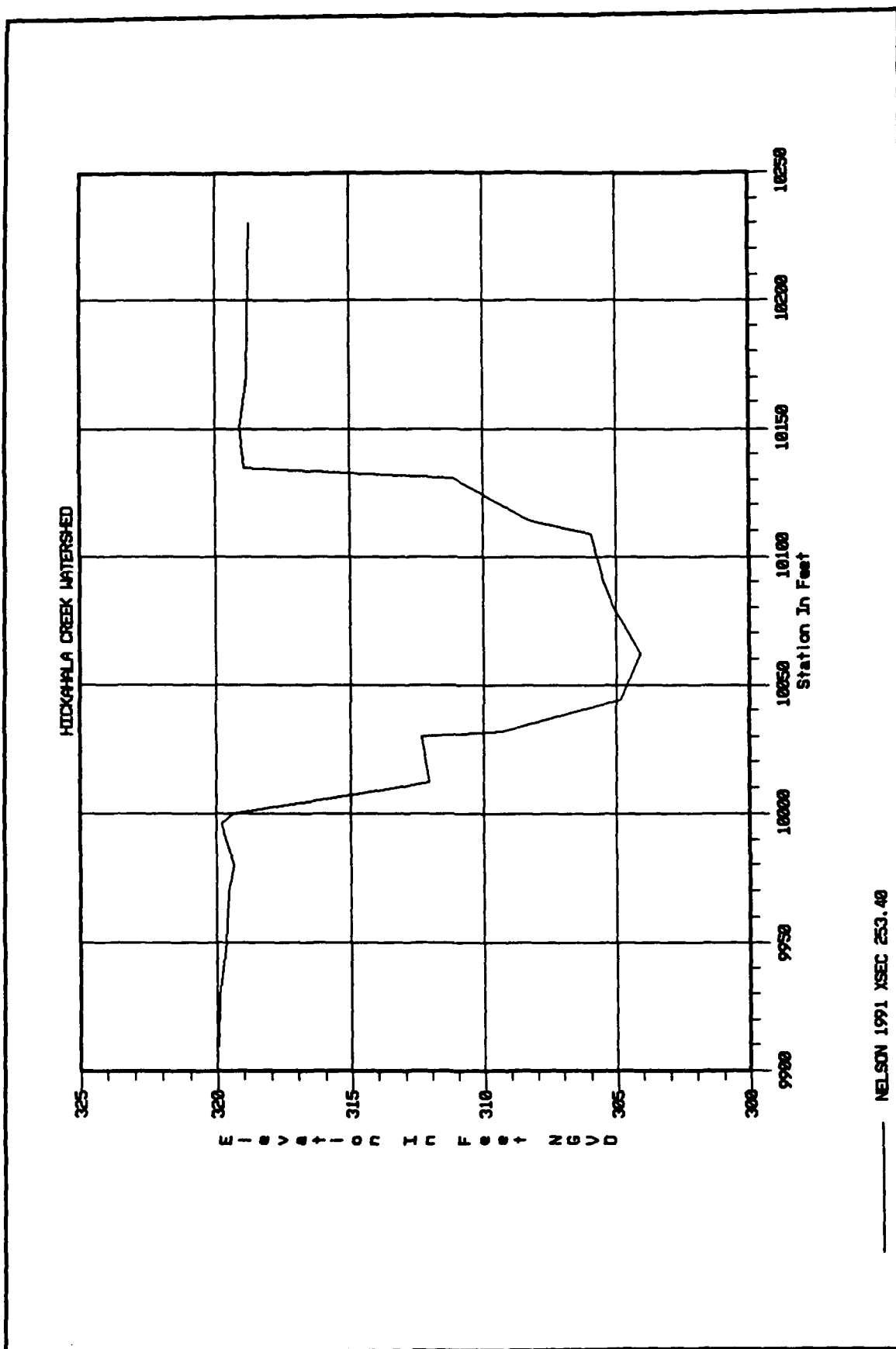


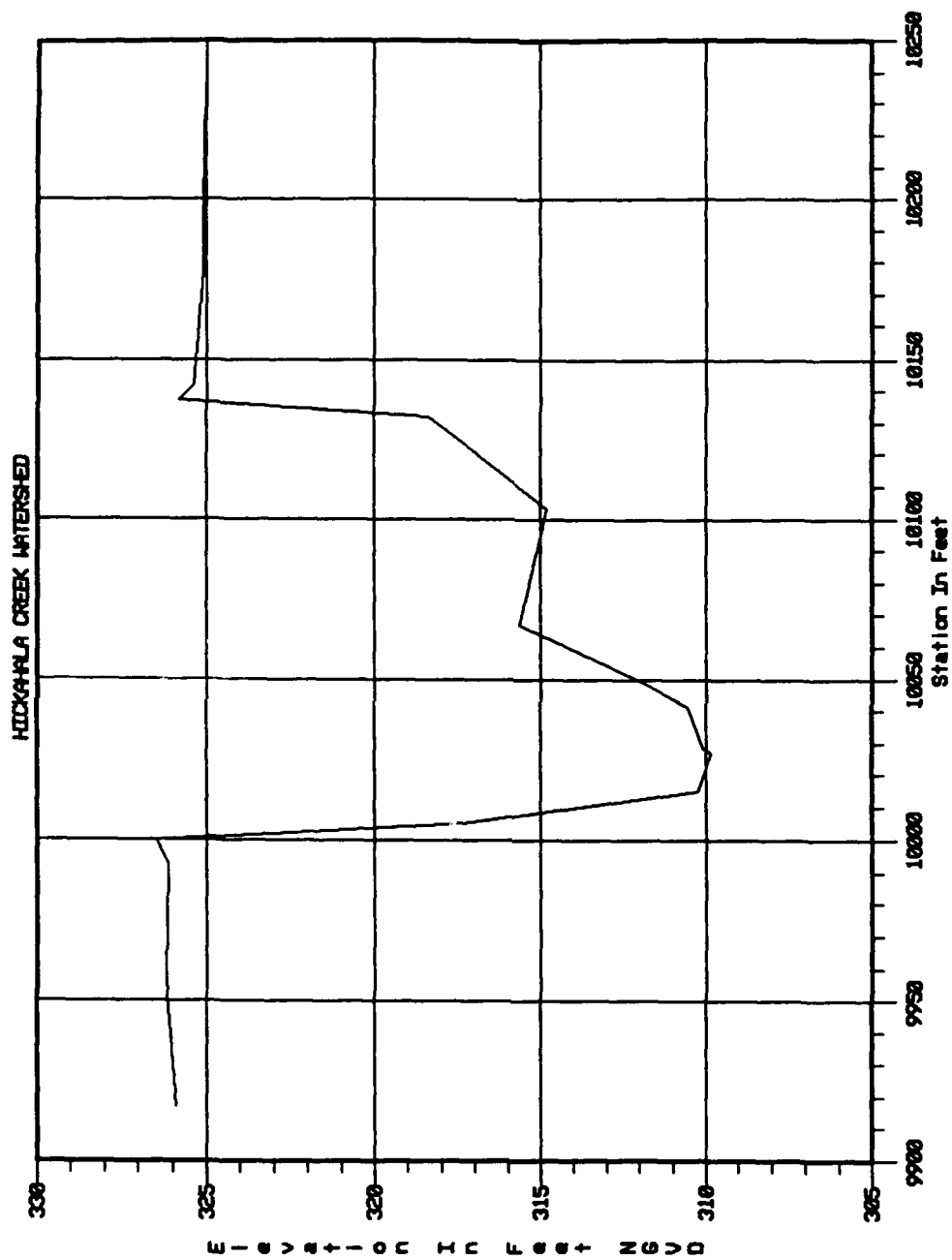
PLATE A148



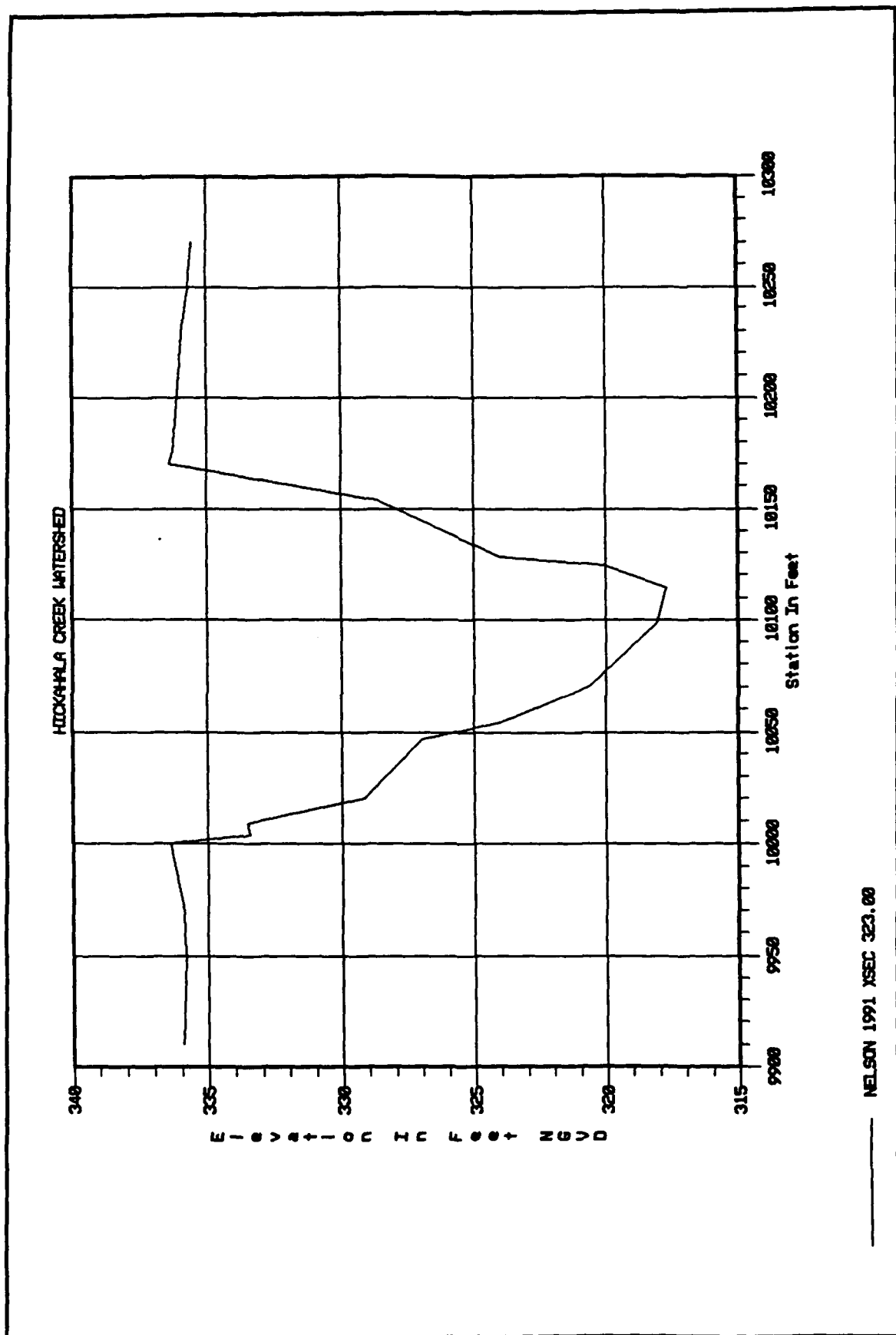
NELSON 1991 XSEC 221.20

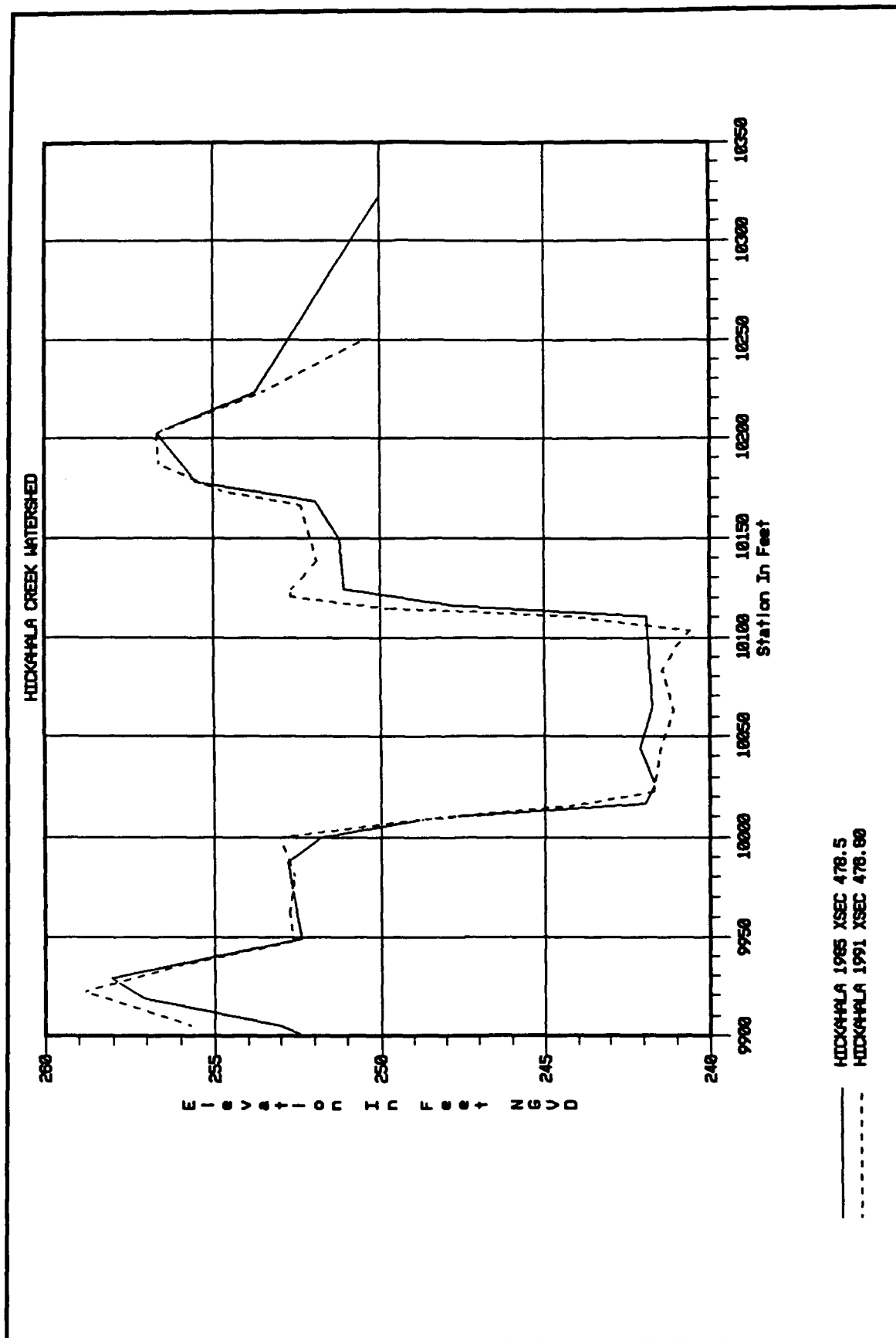
PLATE A150





— NELSON 1991 XSEC 282.00





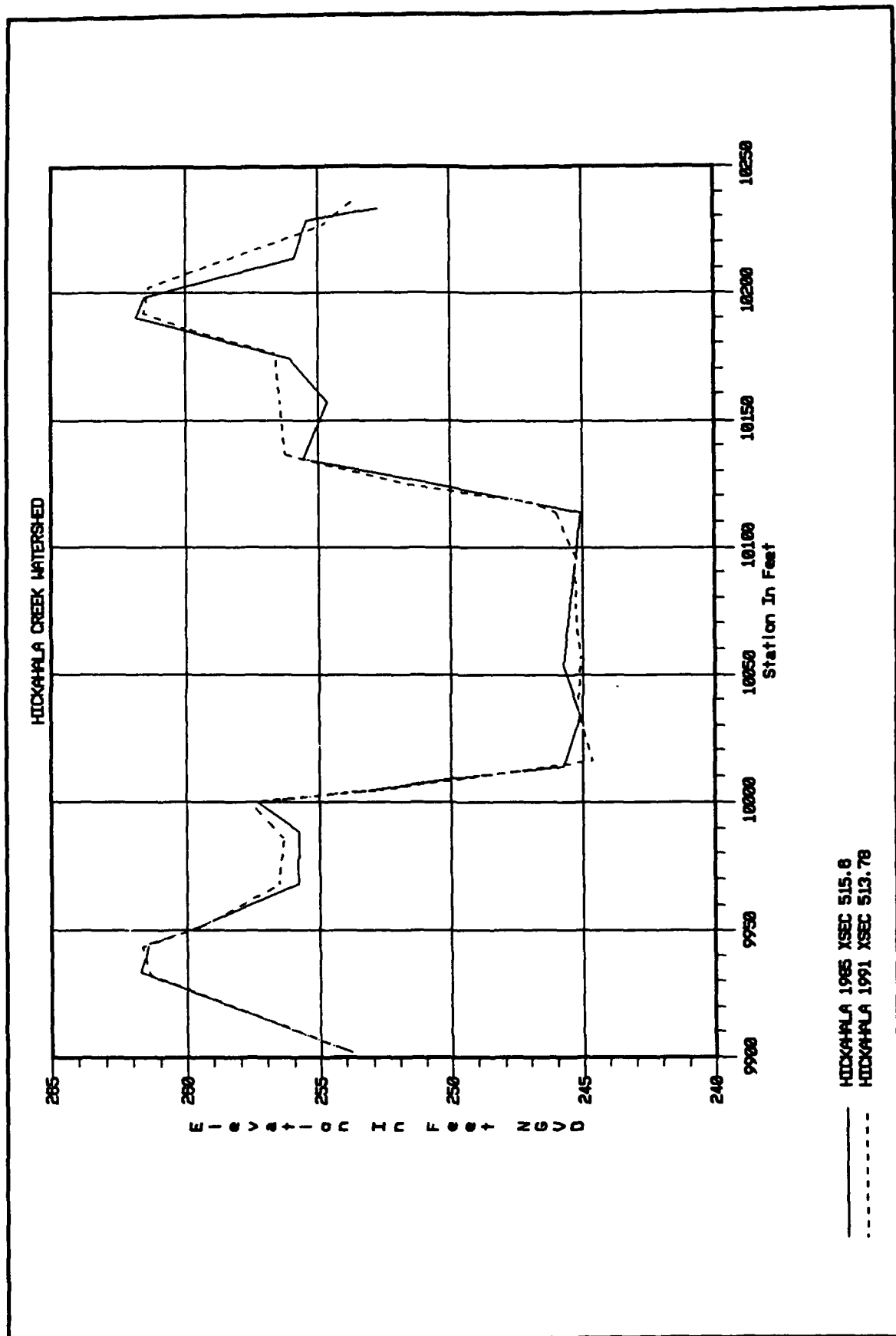
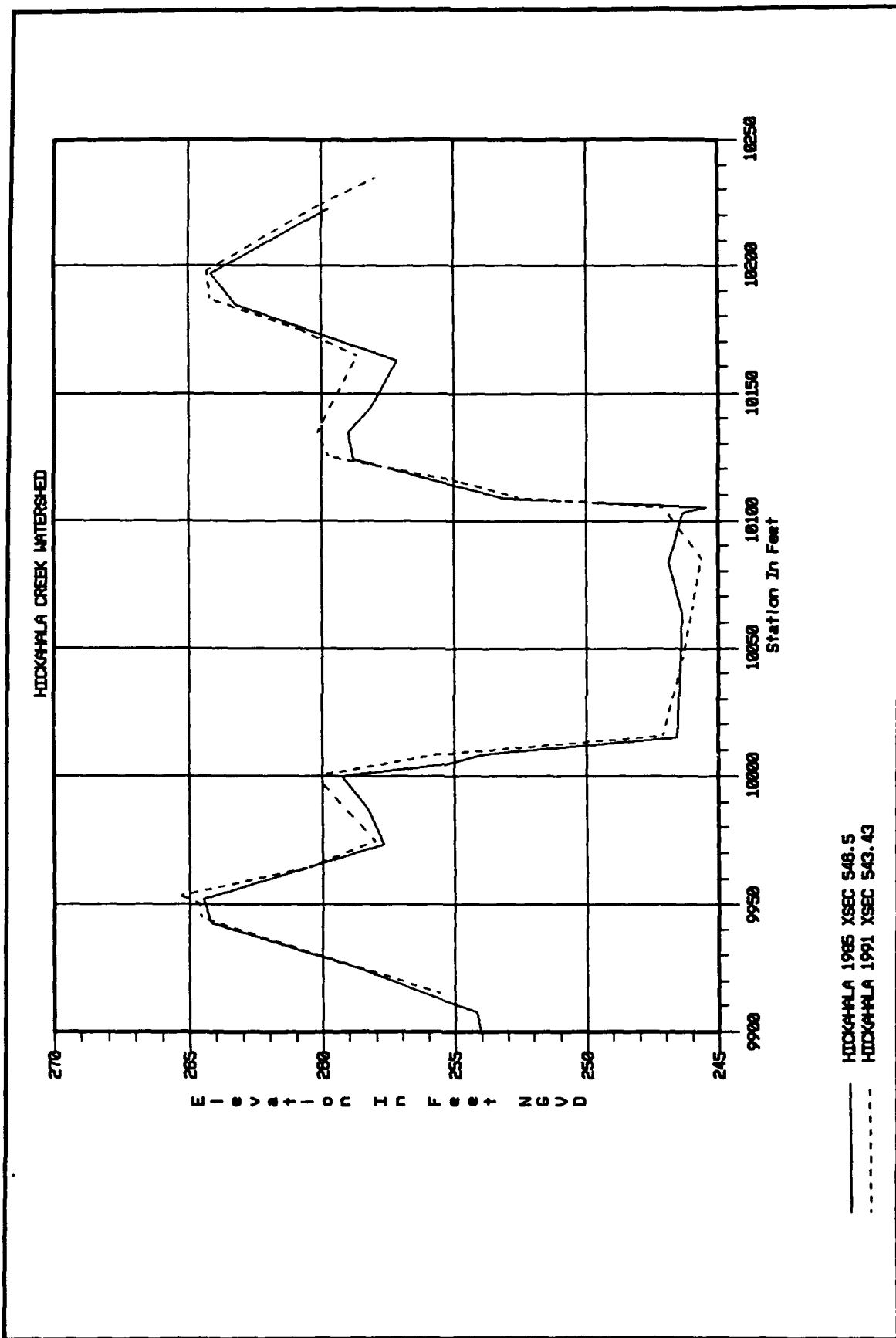


PLATE A154



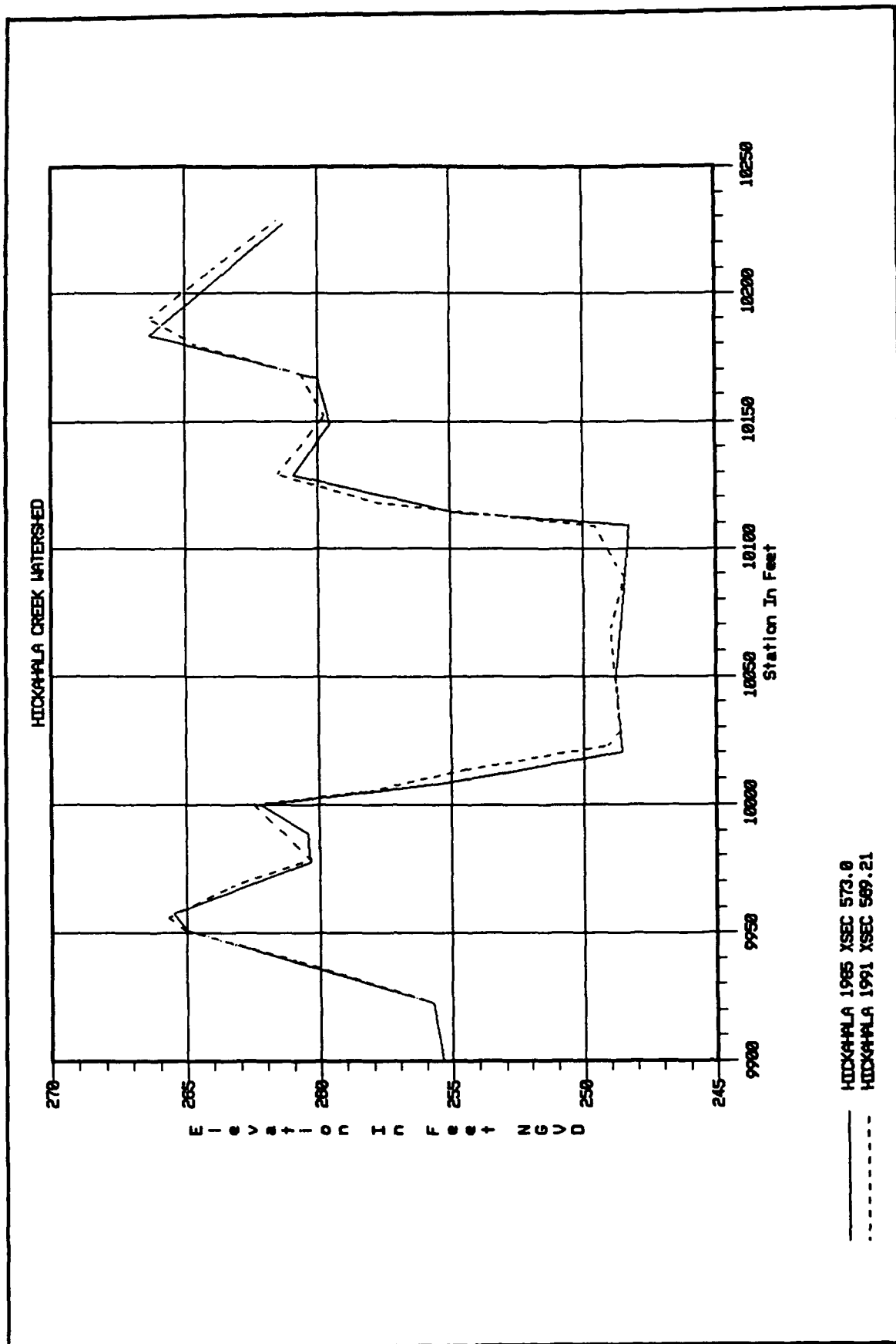
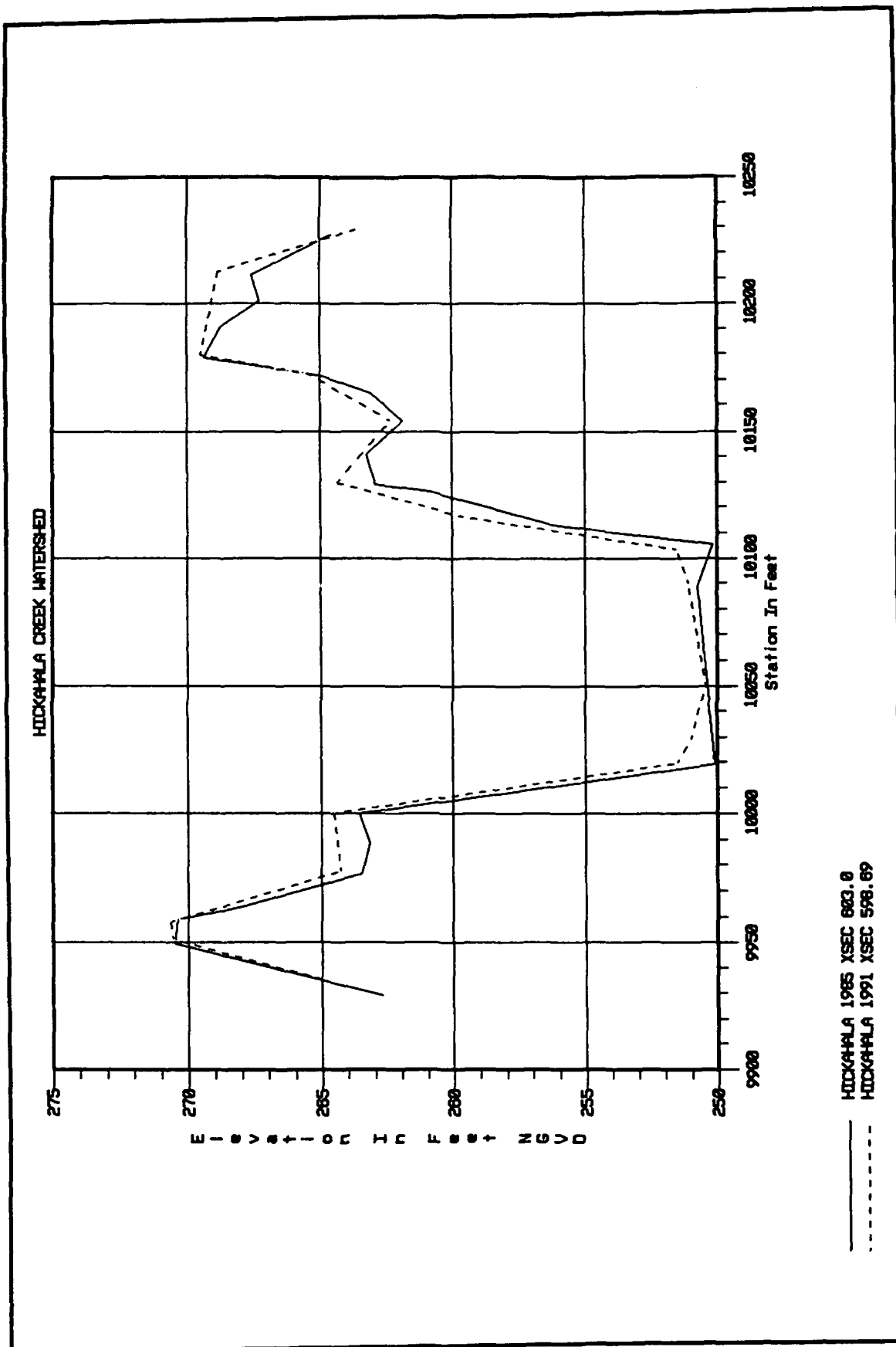


PLATE A156



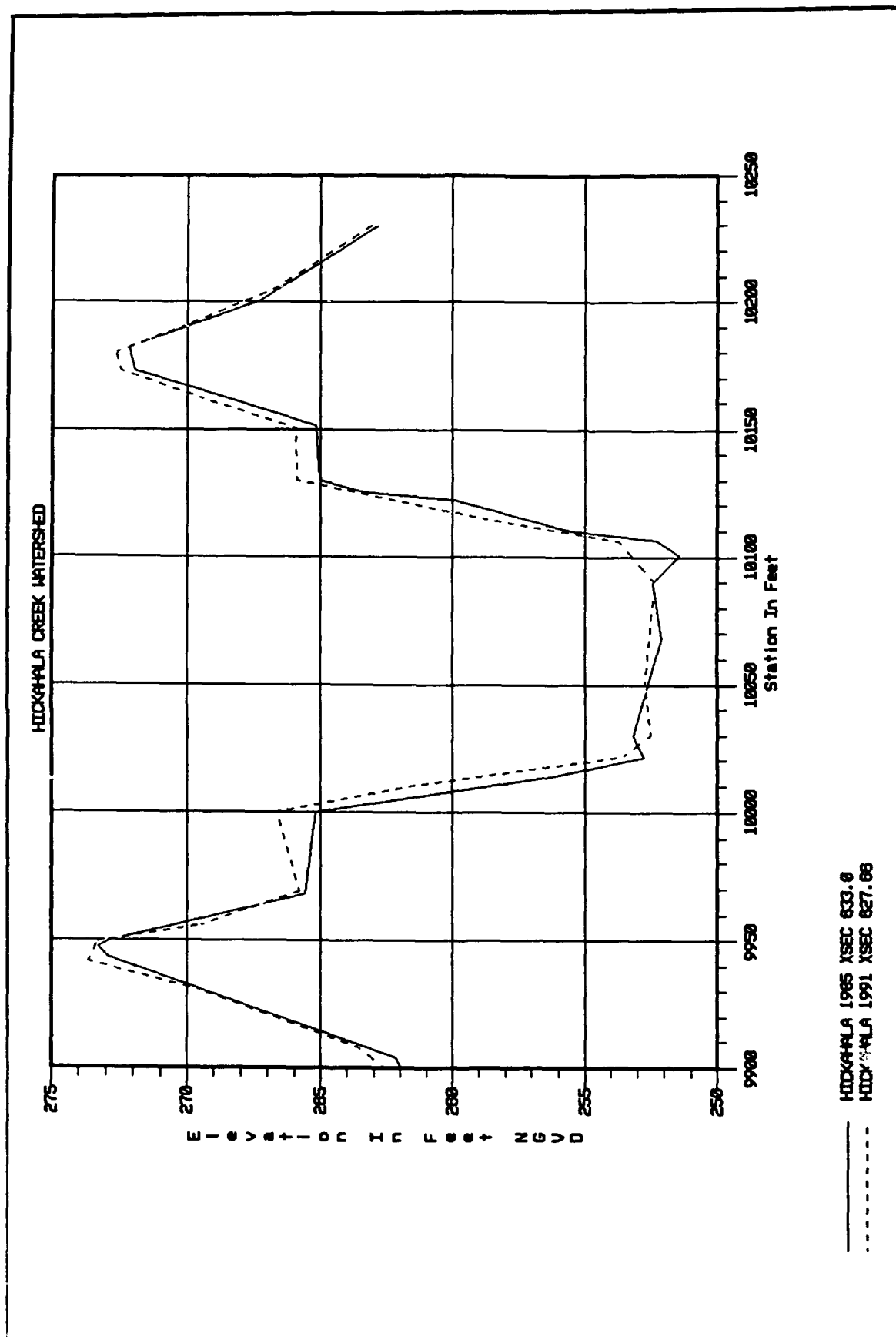
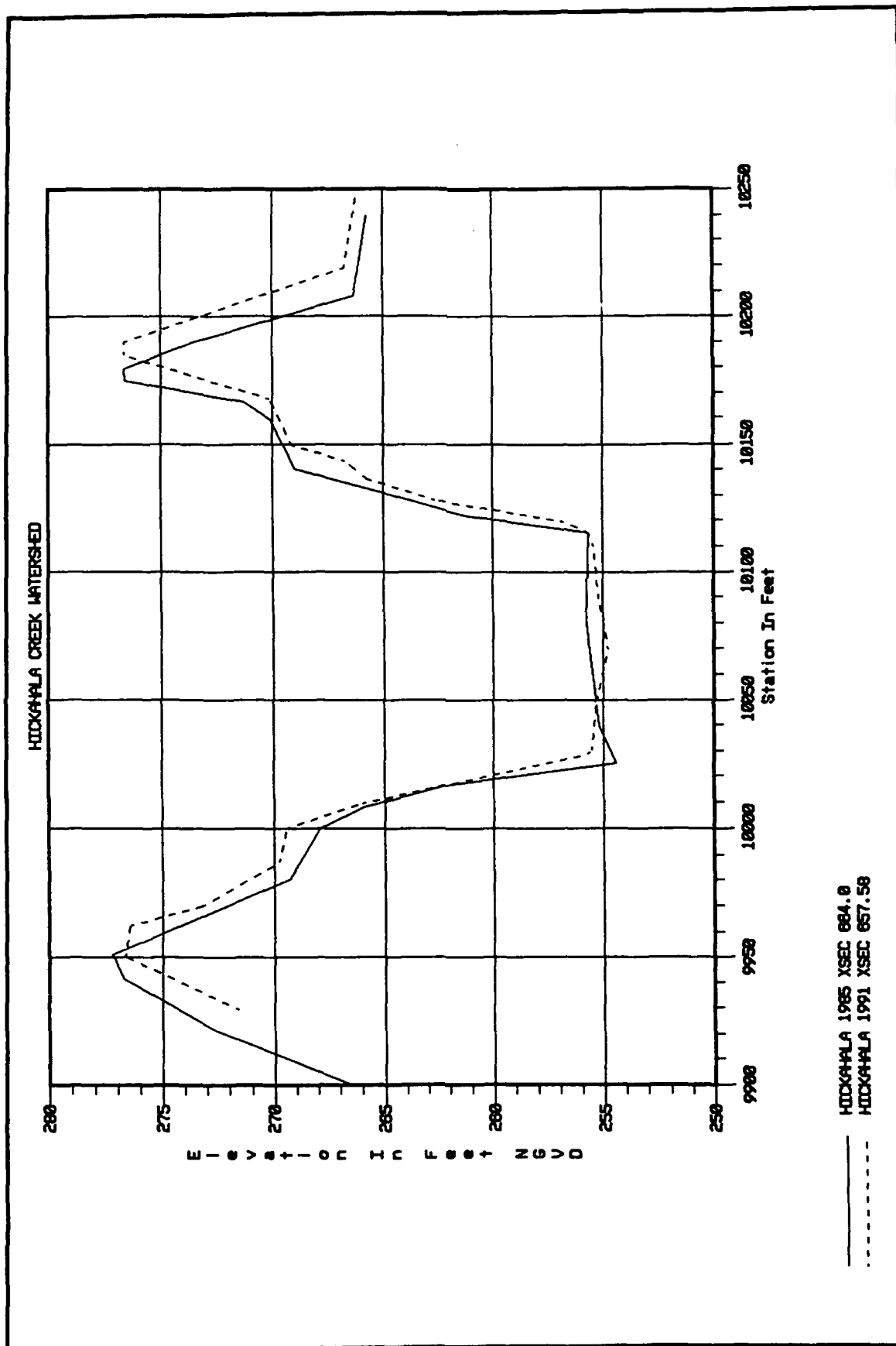


PLATE A158



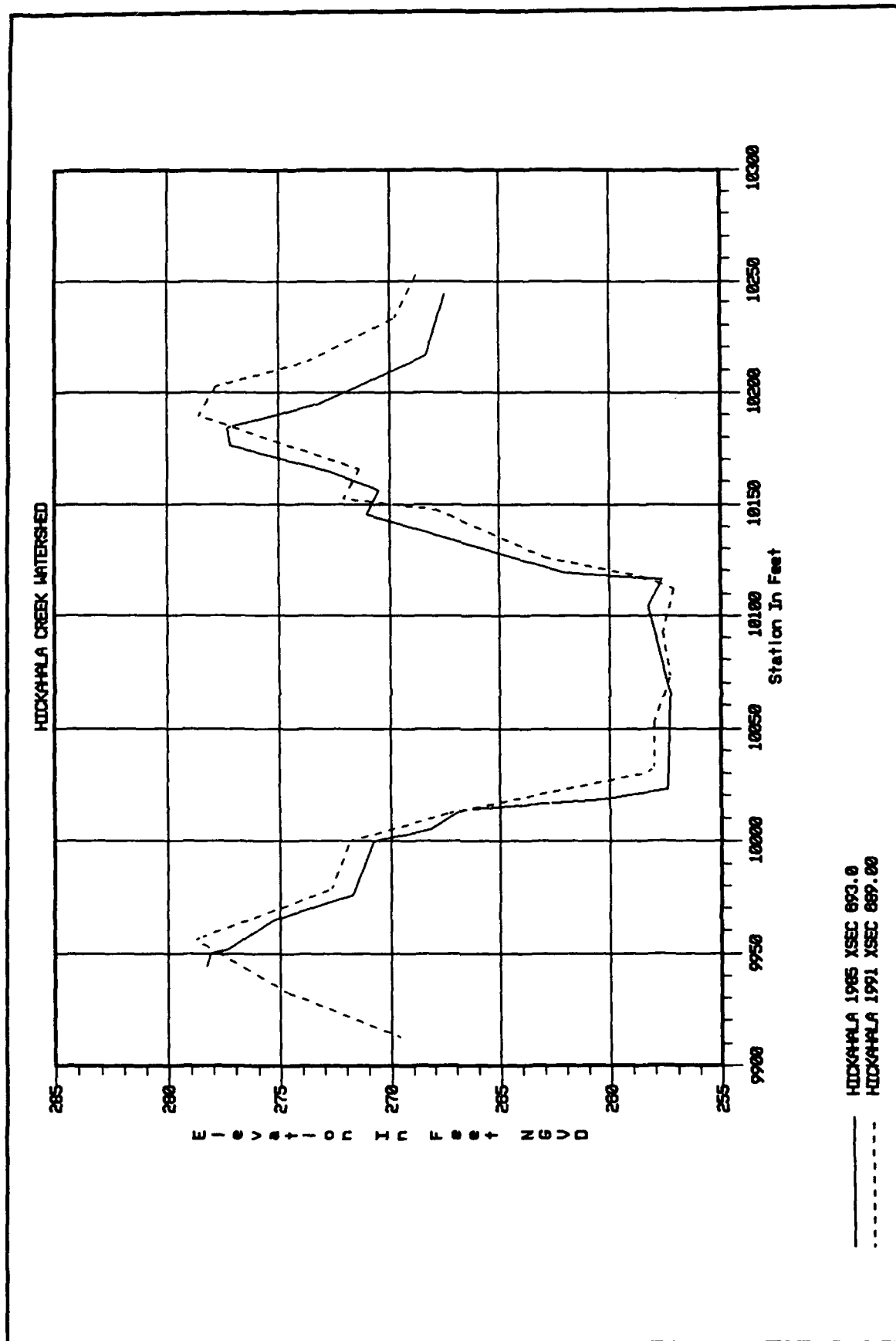
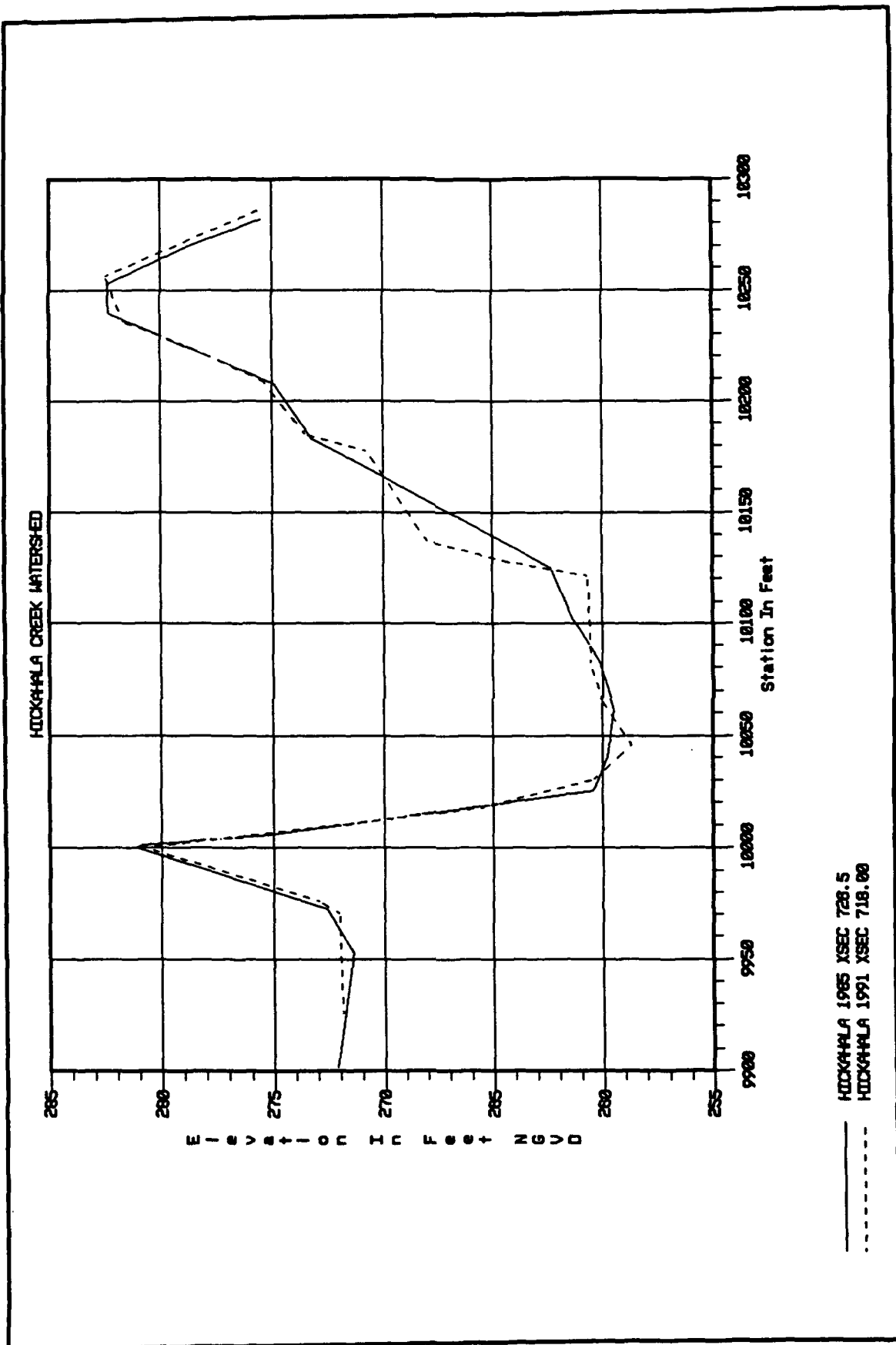


PLATE A160



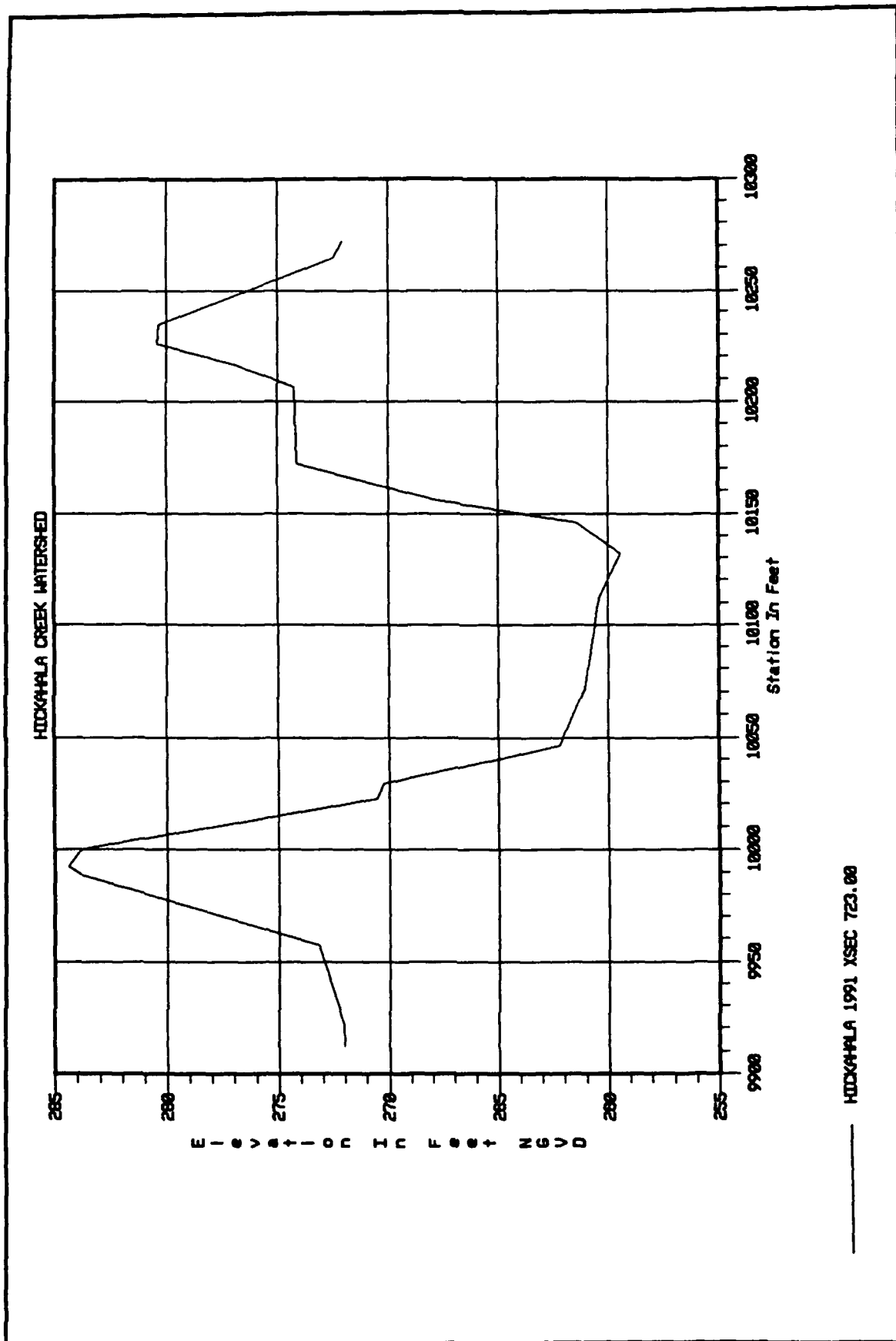
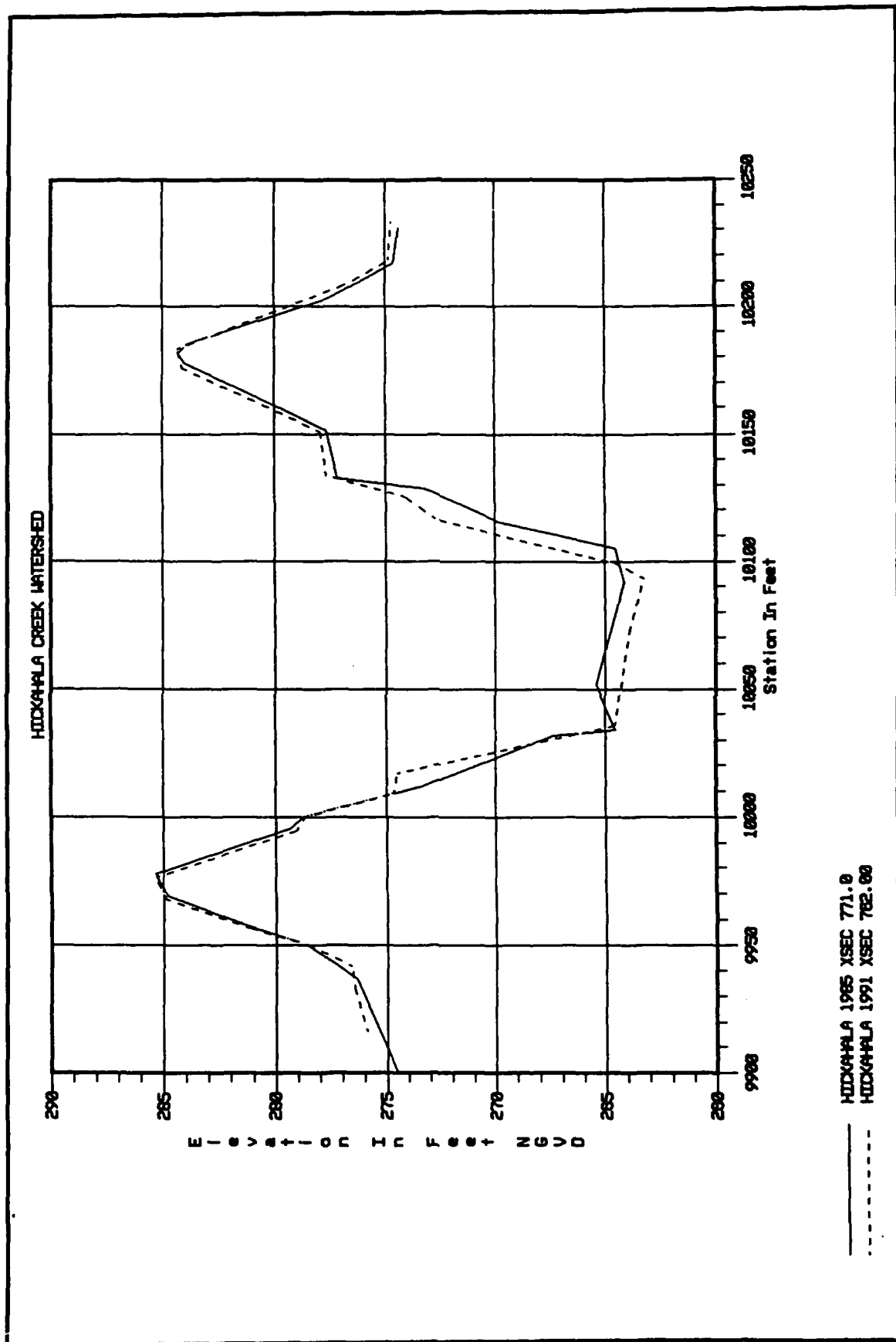


PLATE A162



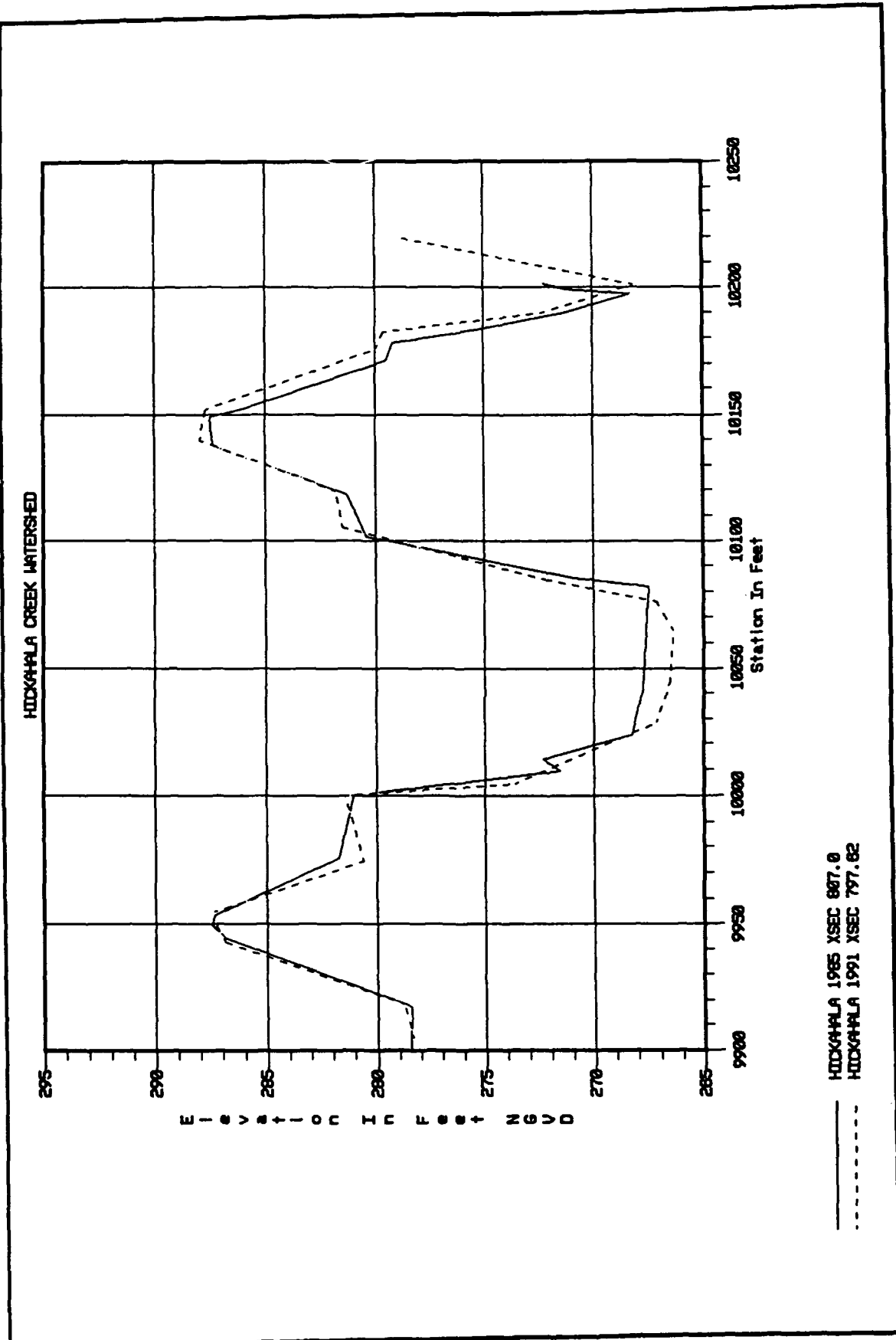
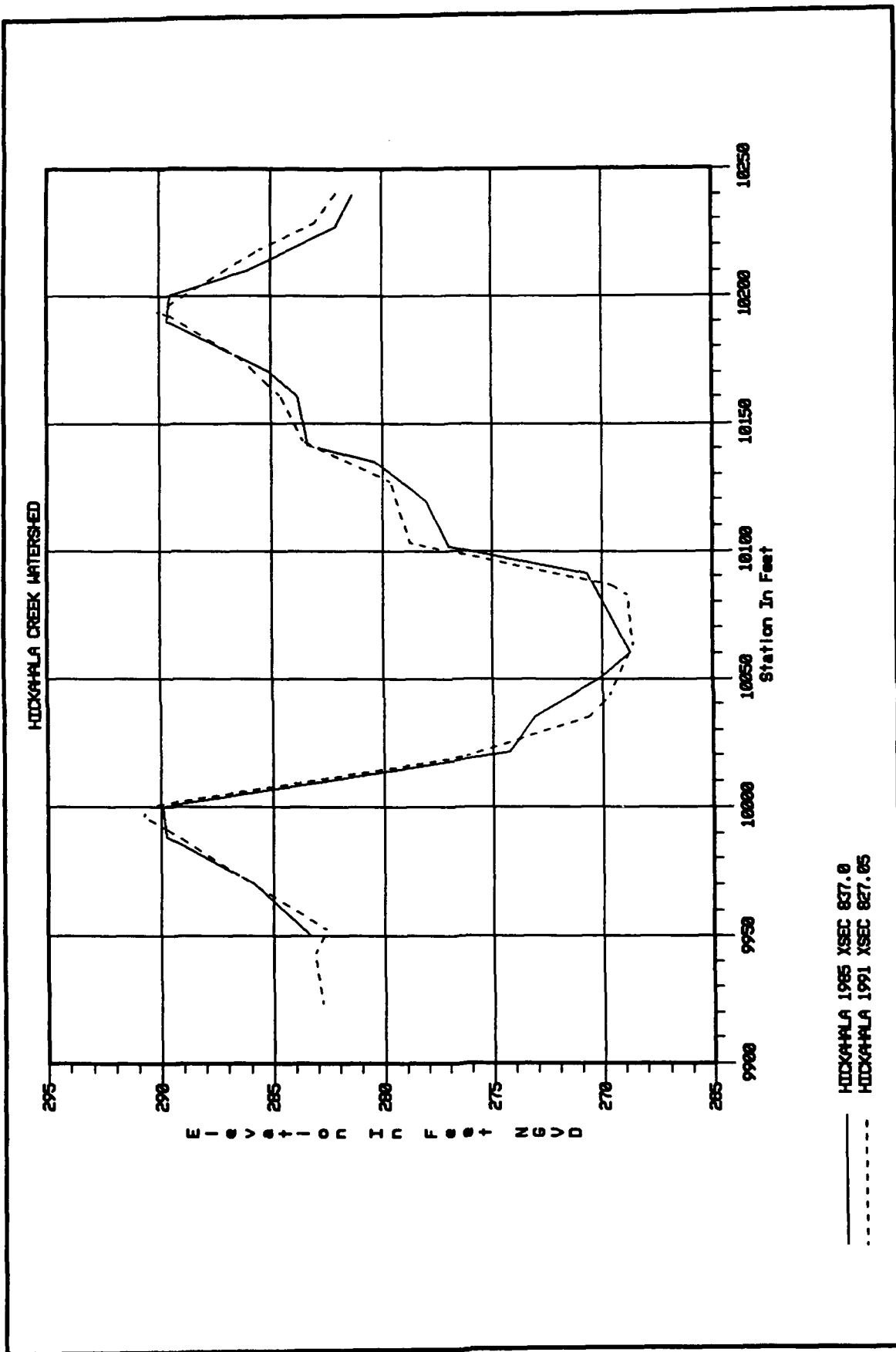


PLATE A164



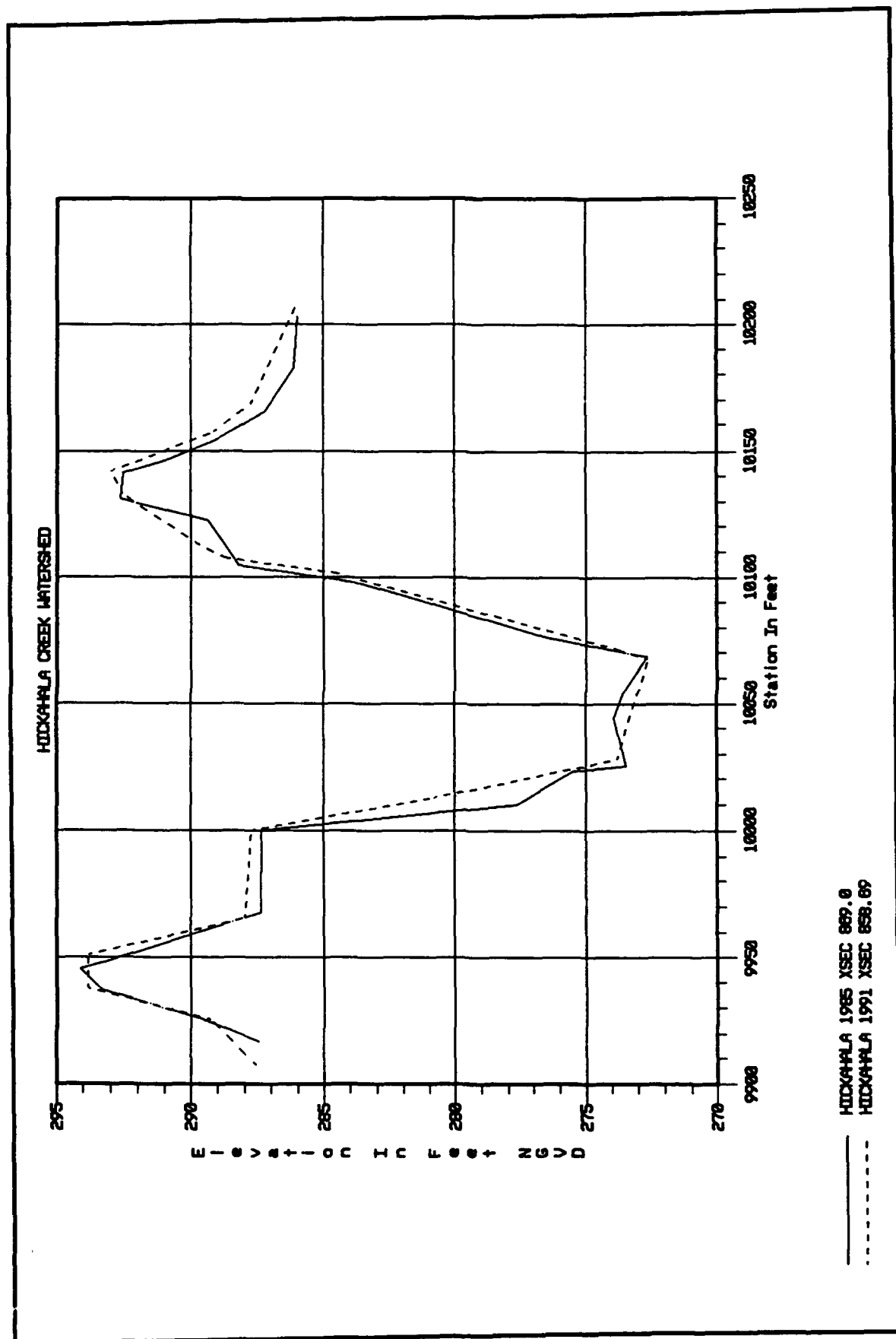
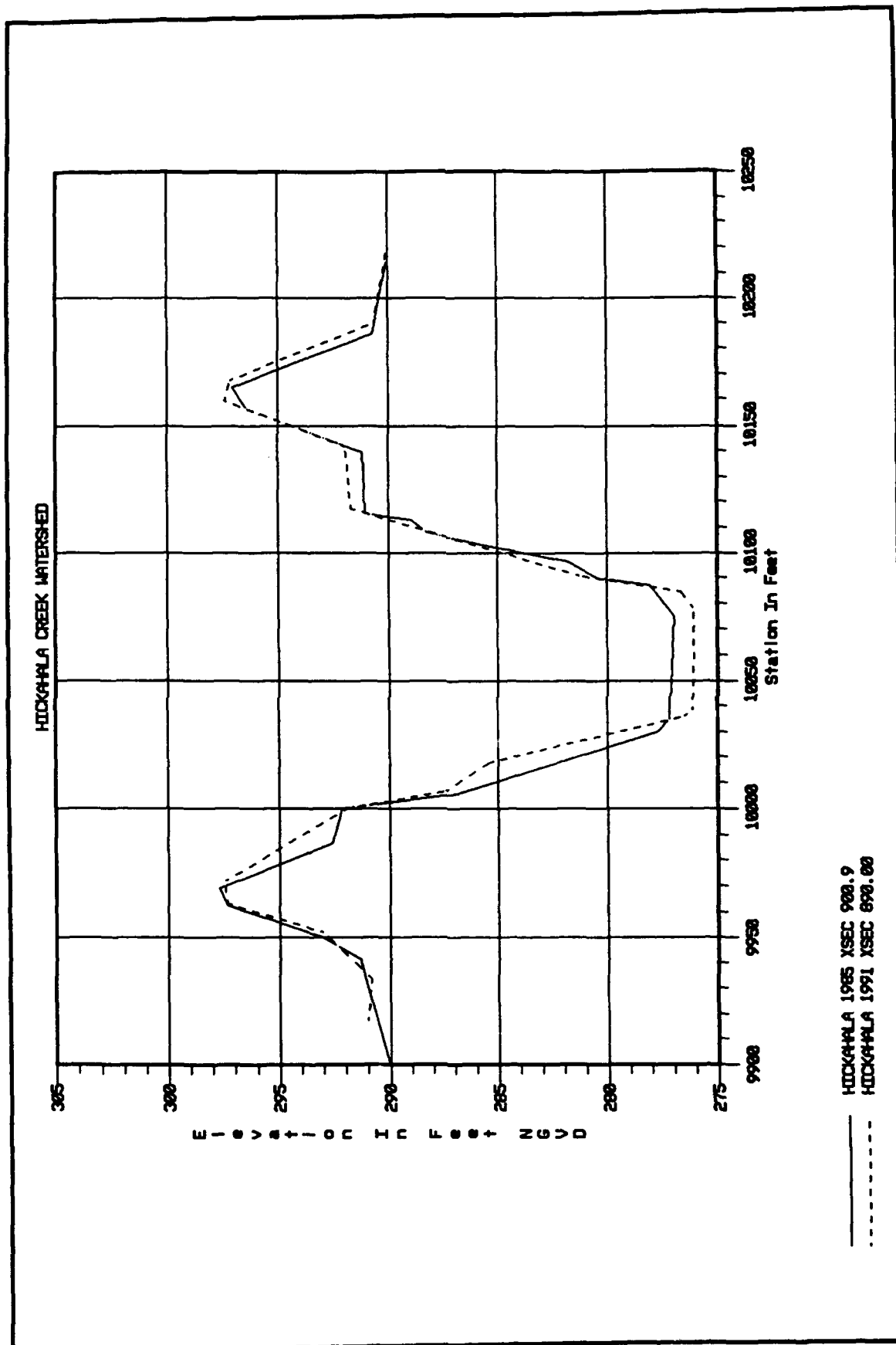
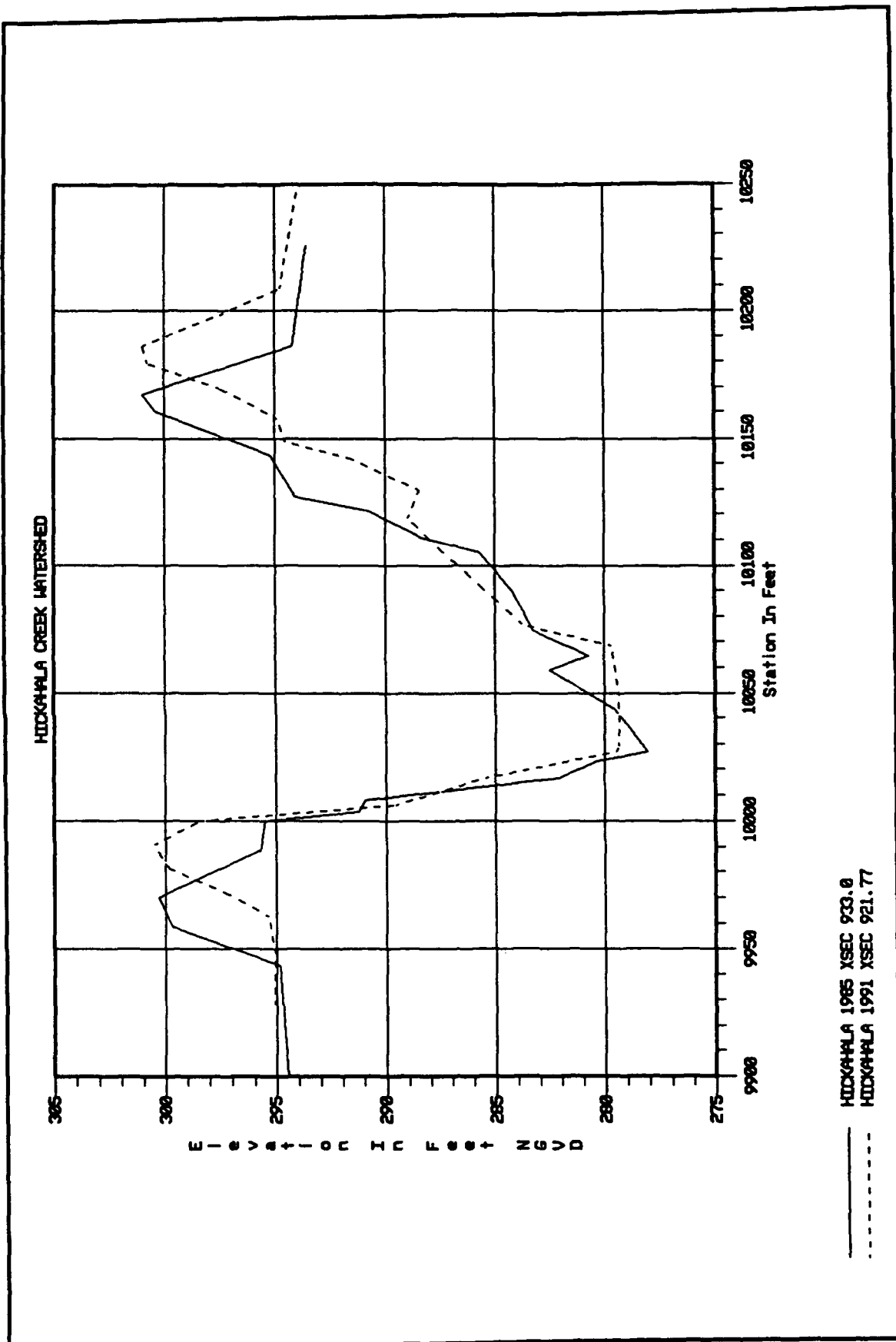
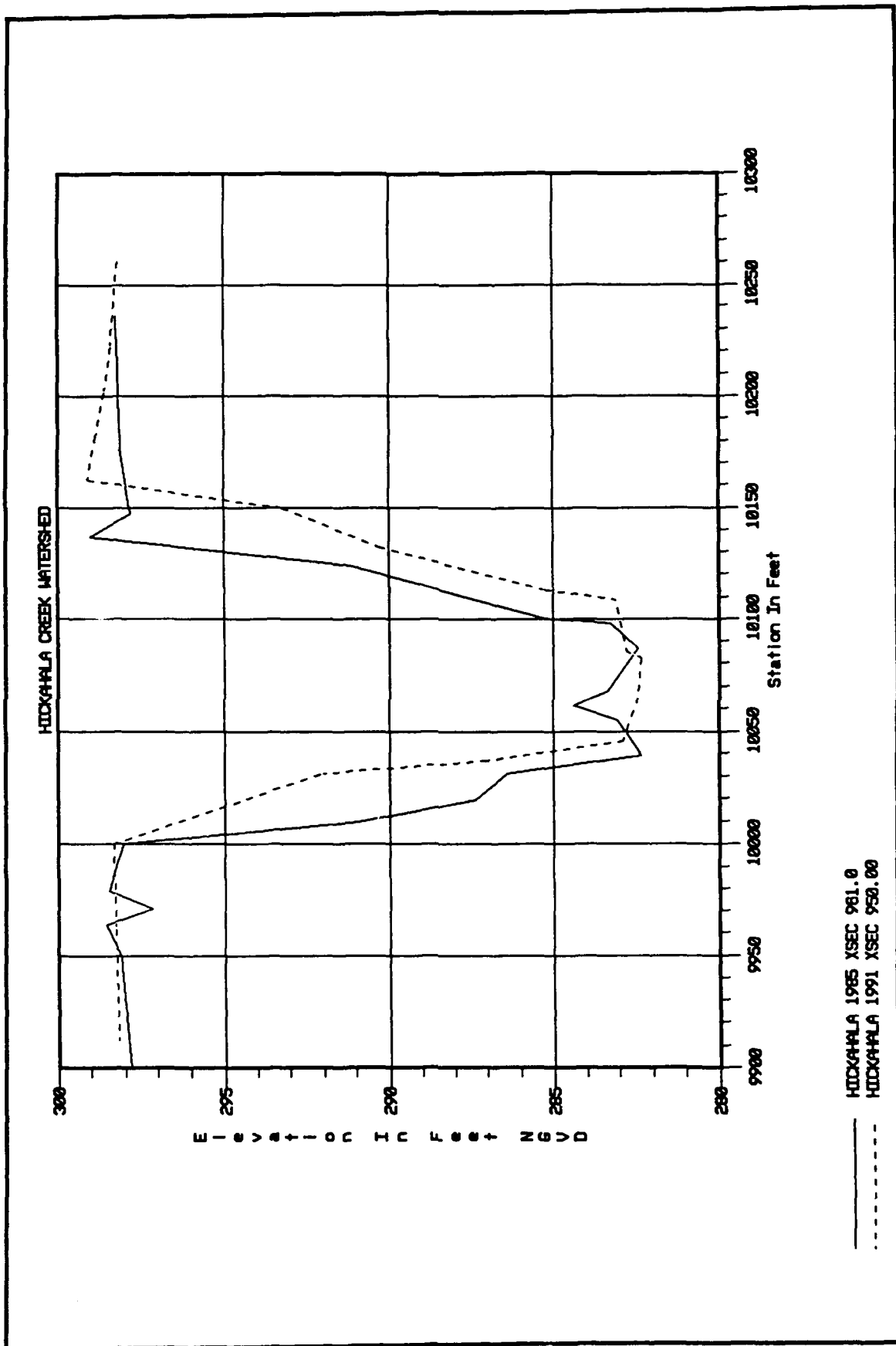


PLATE A166







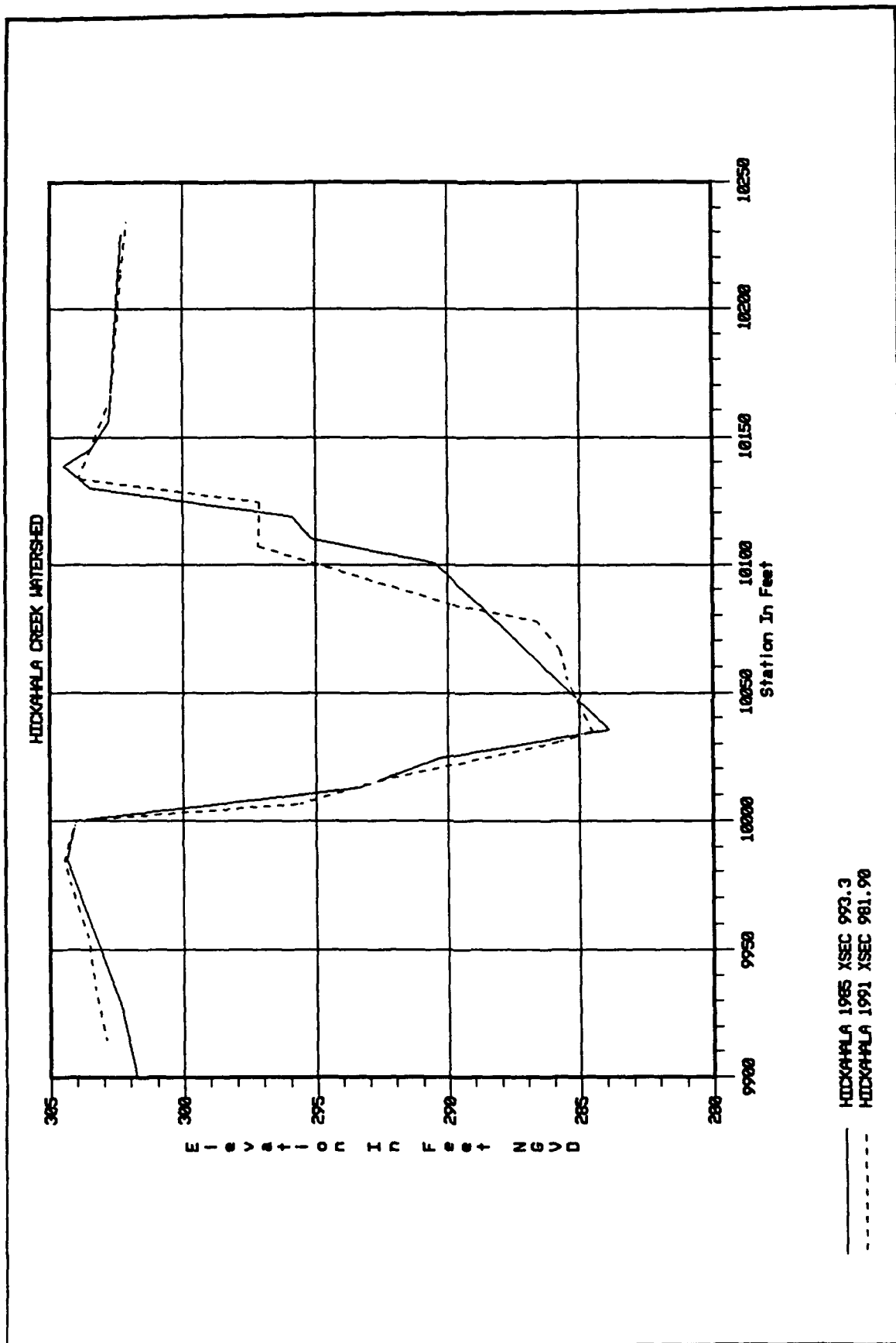
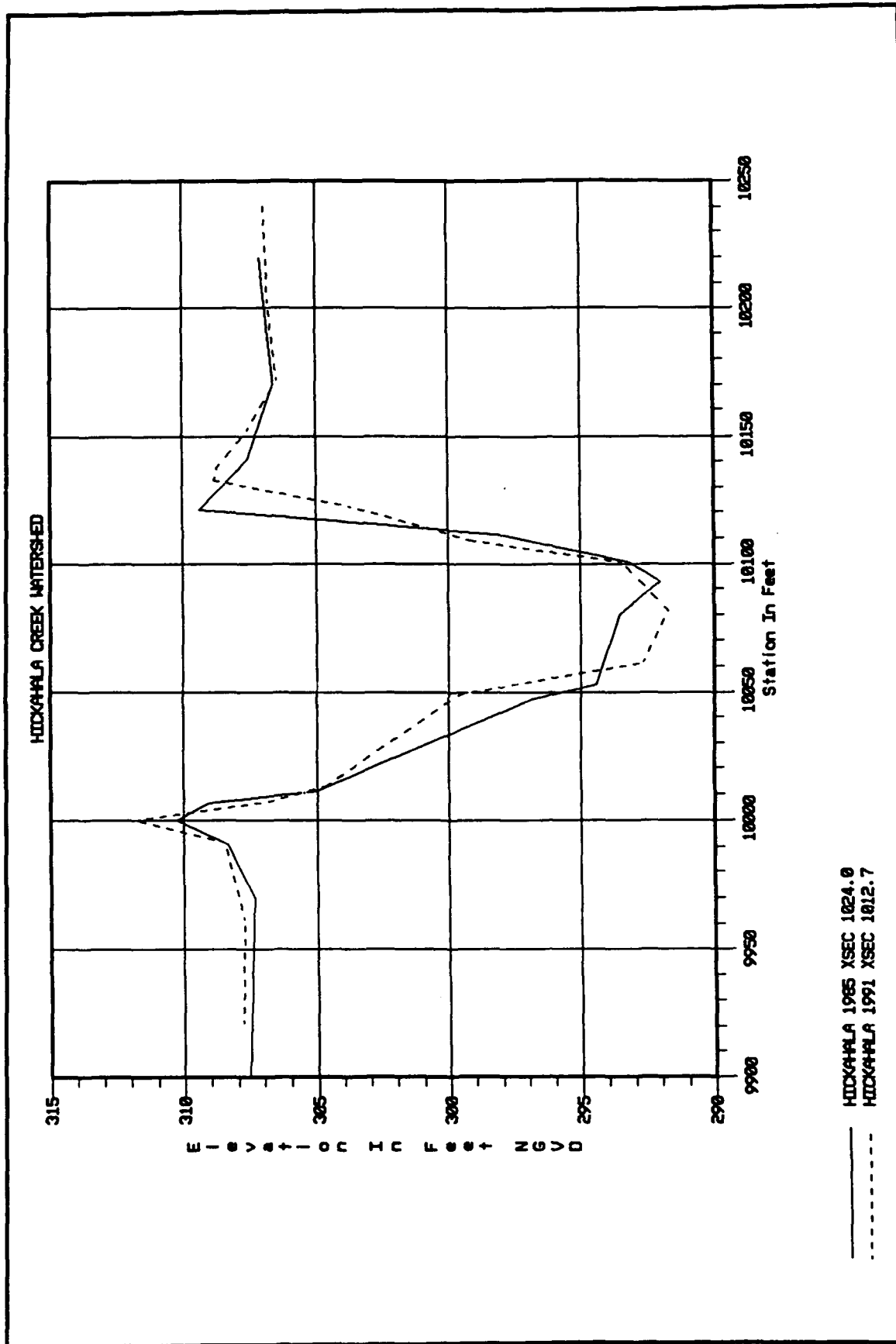


PLATE A170



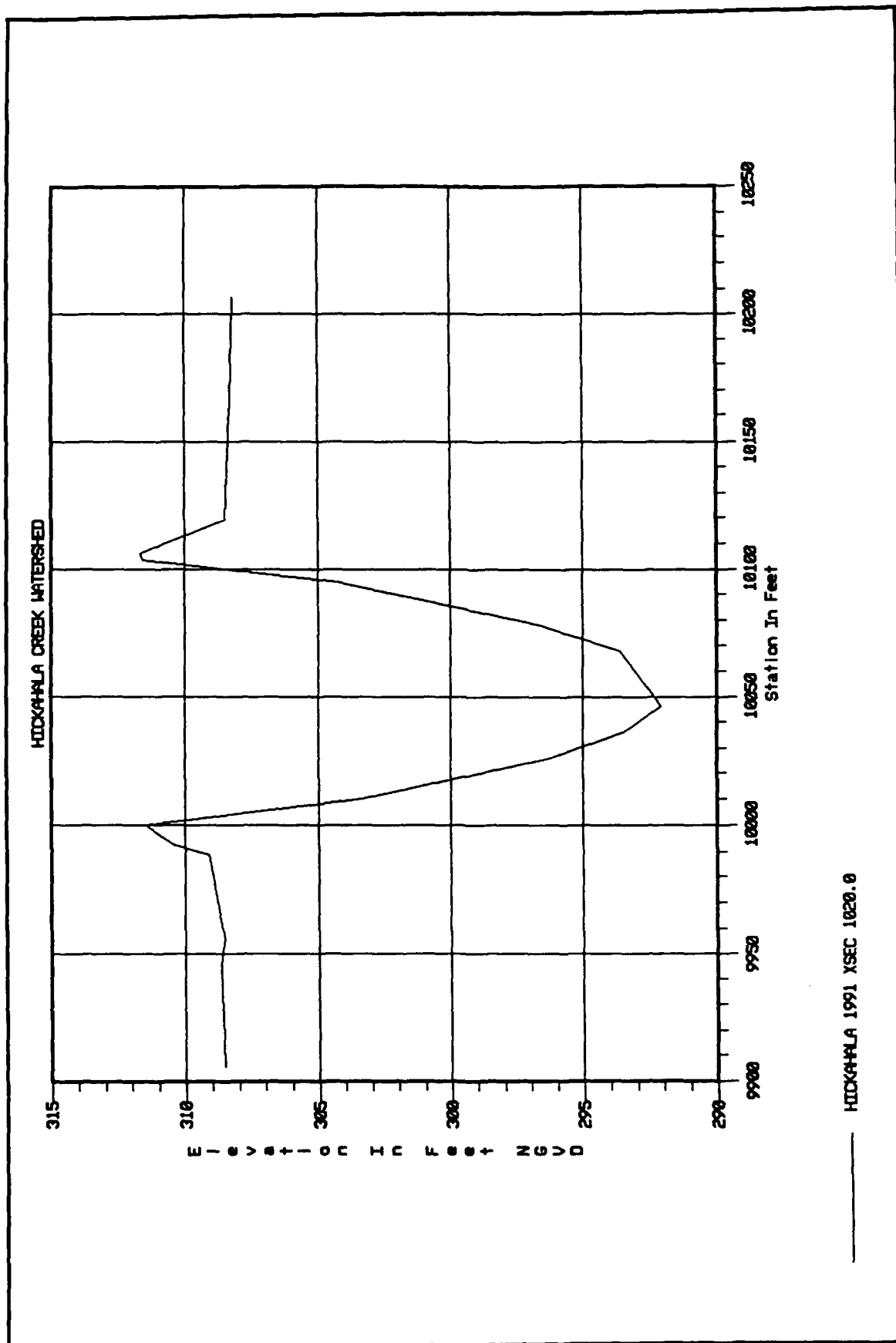
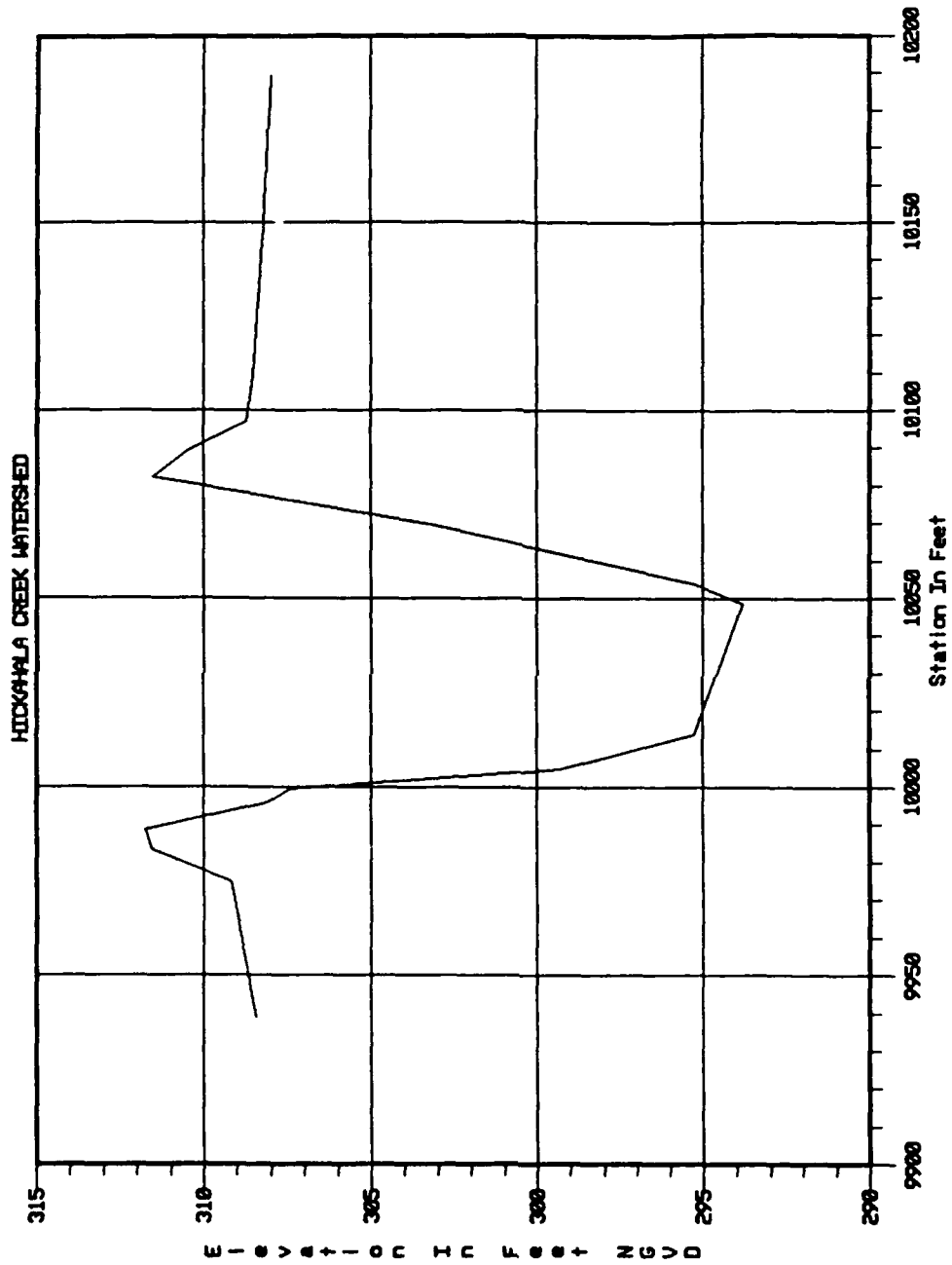
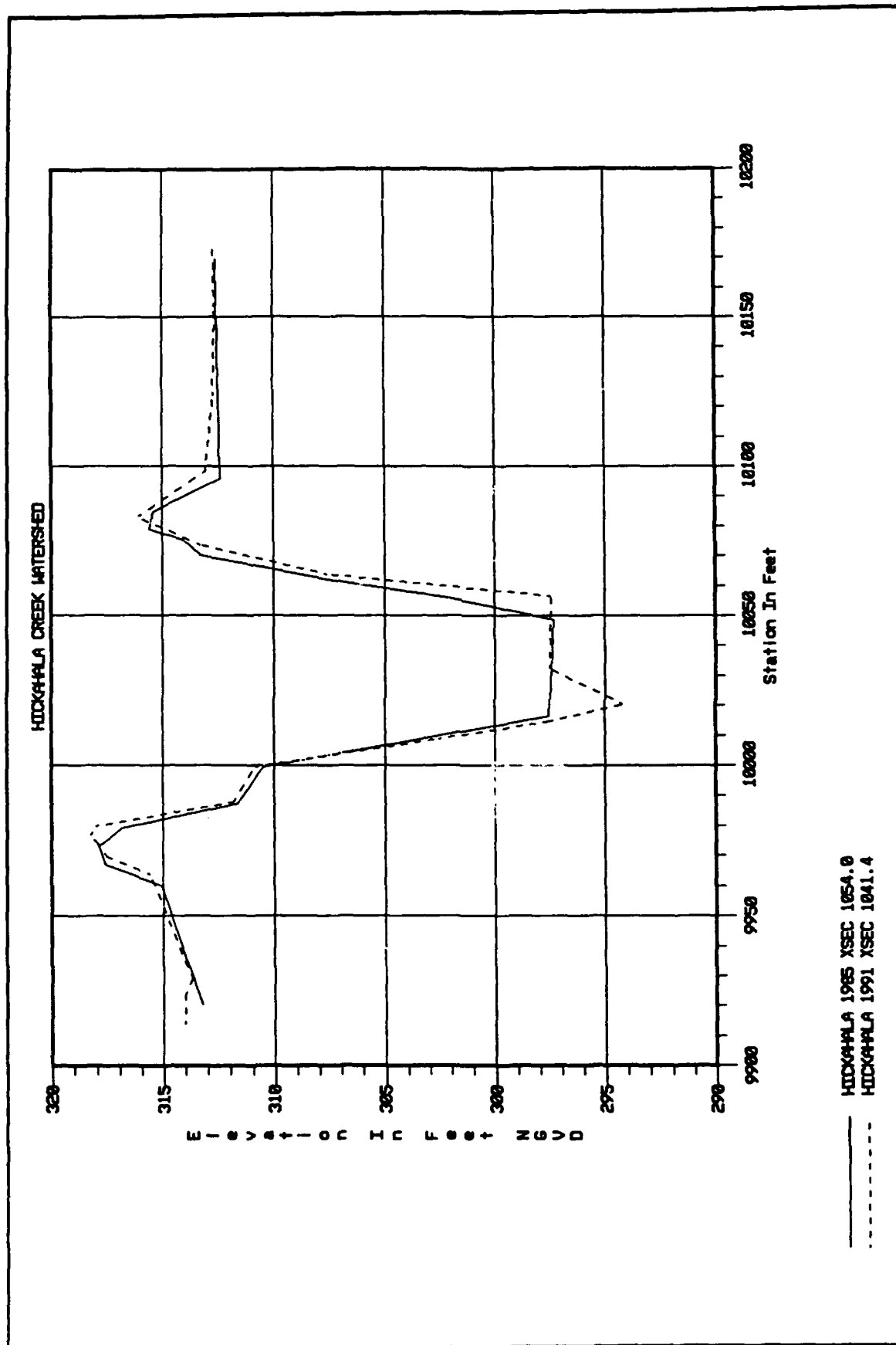
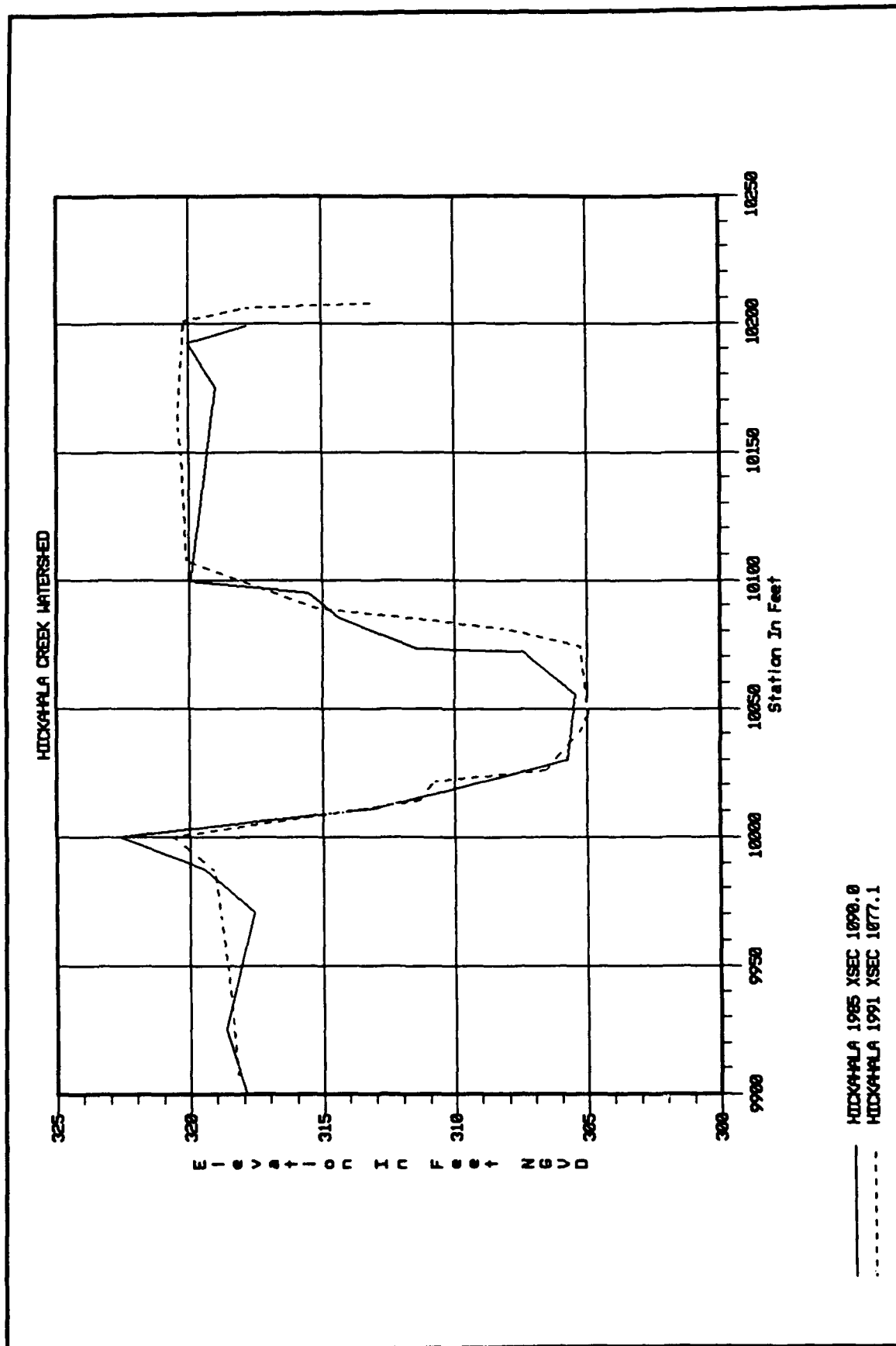


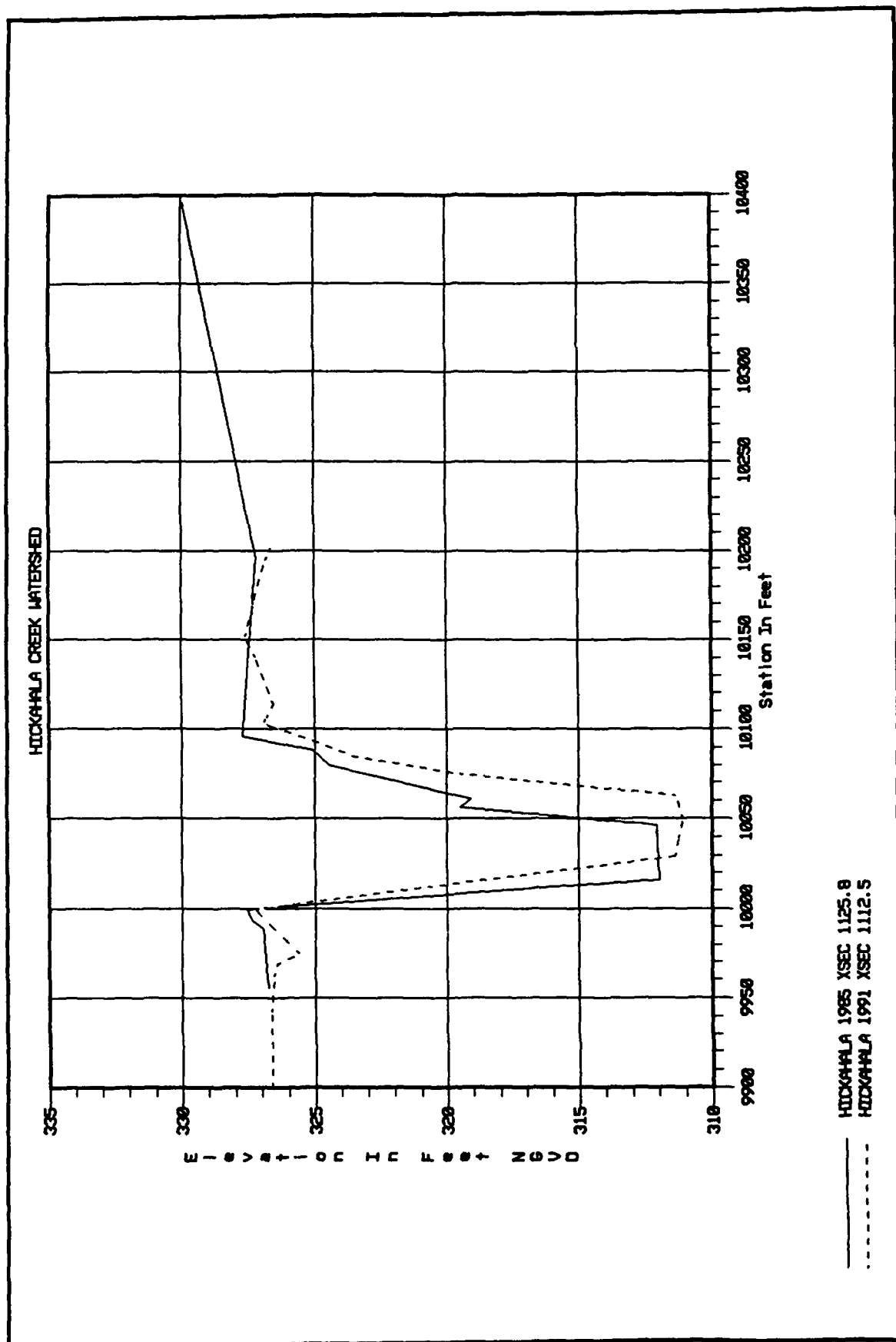
PLATE A172

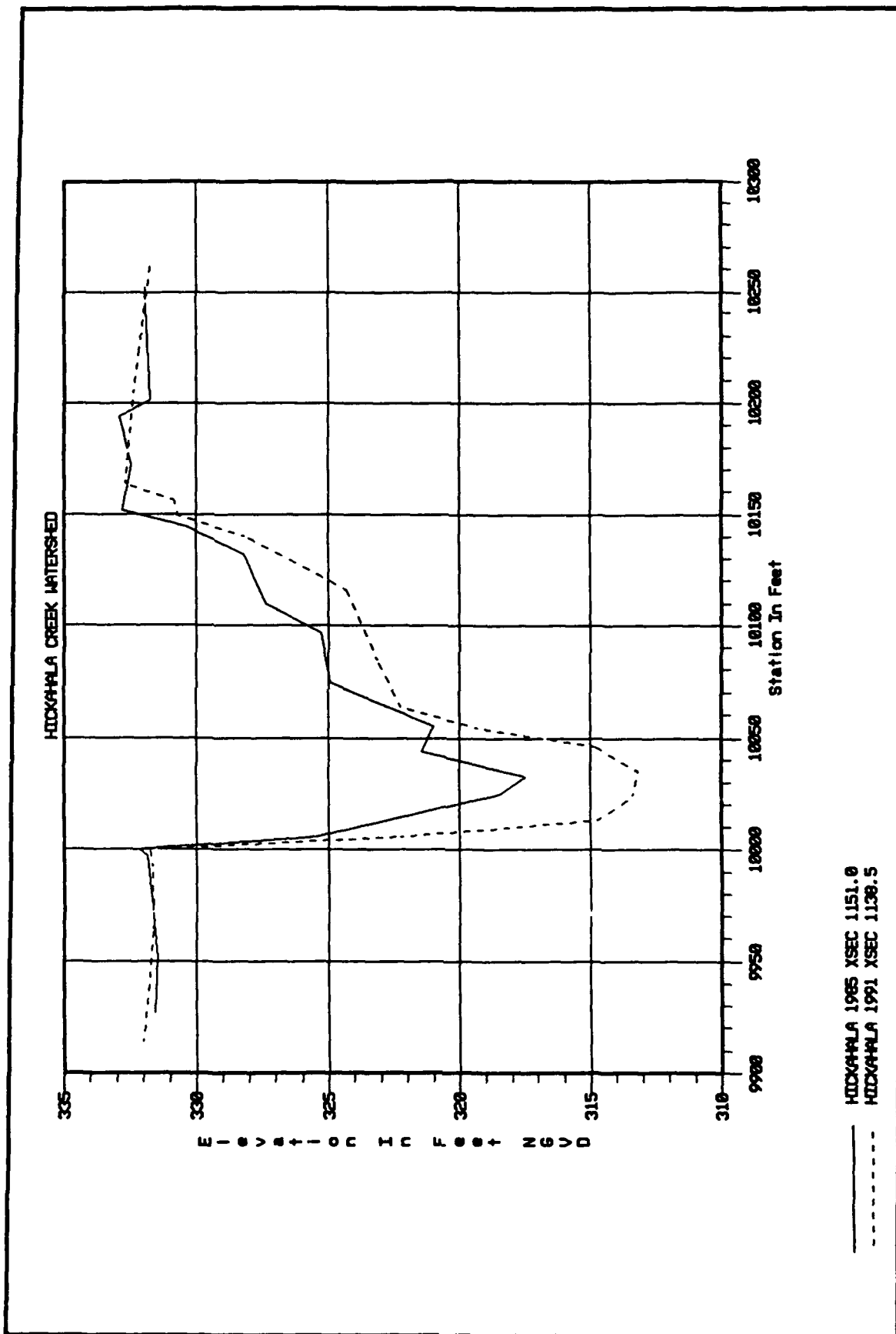


HICKAHALA 1991 XSEC 1022.0









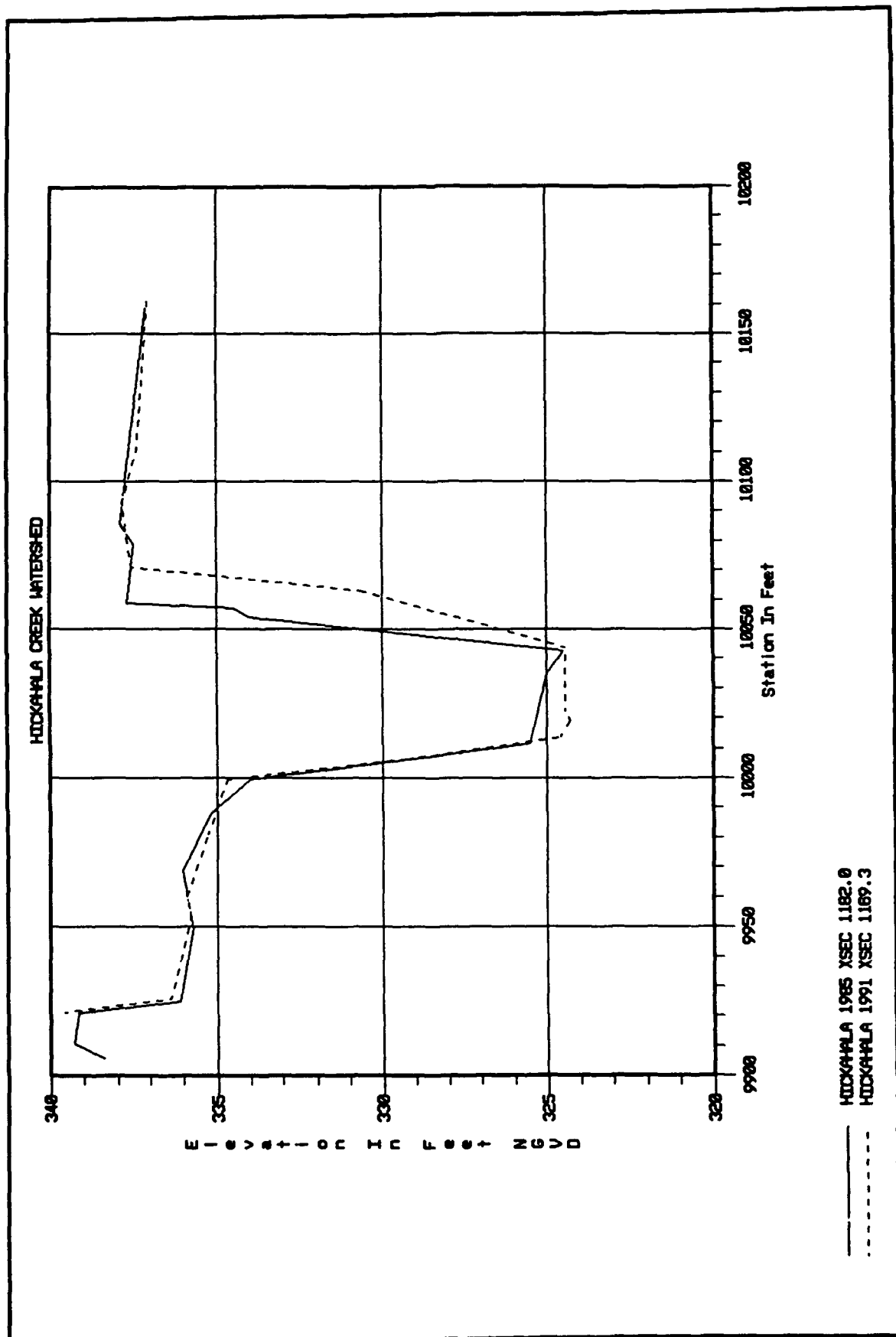
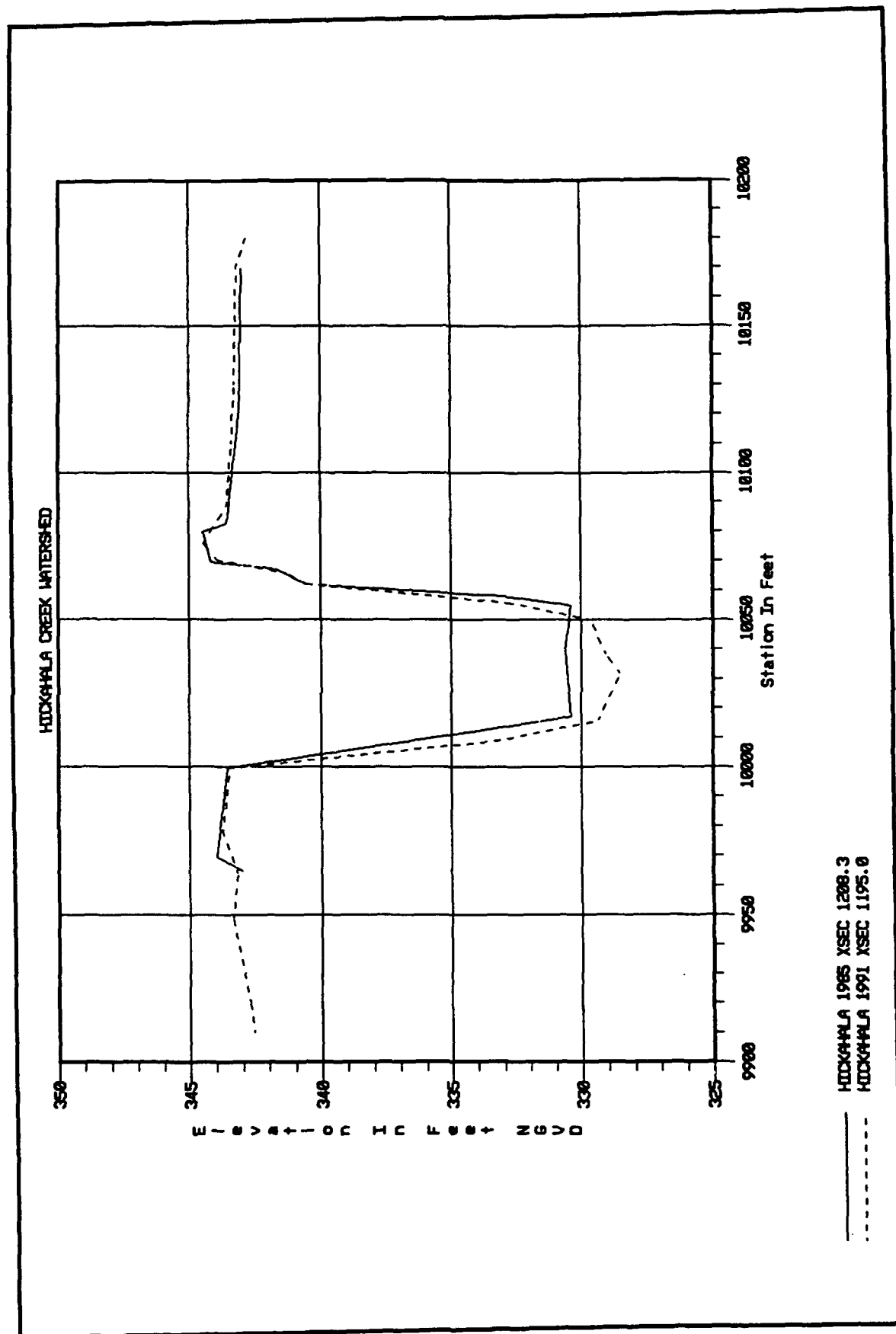
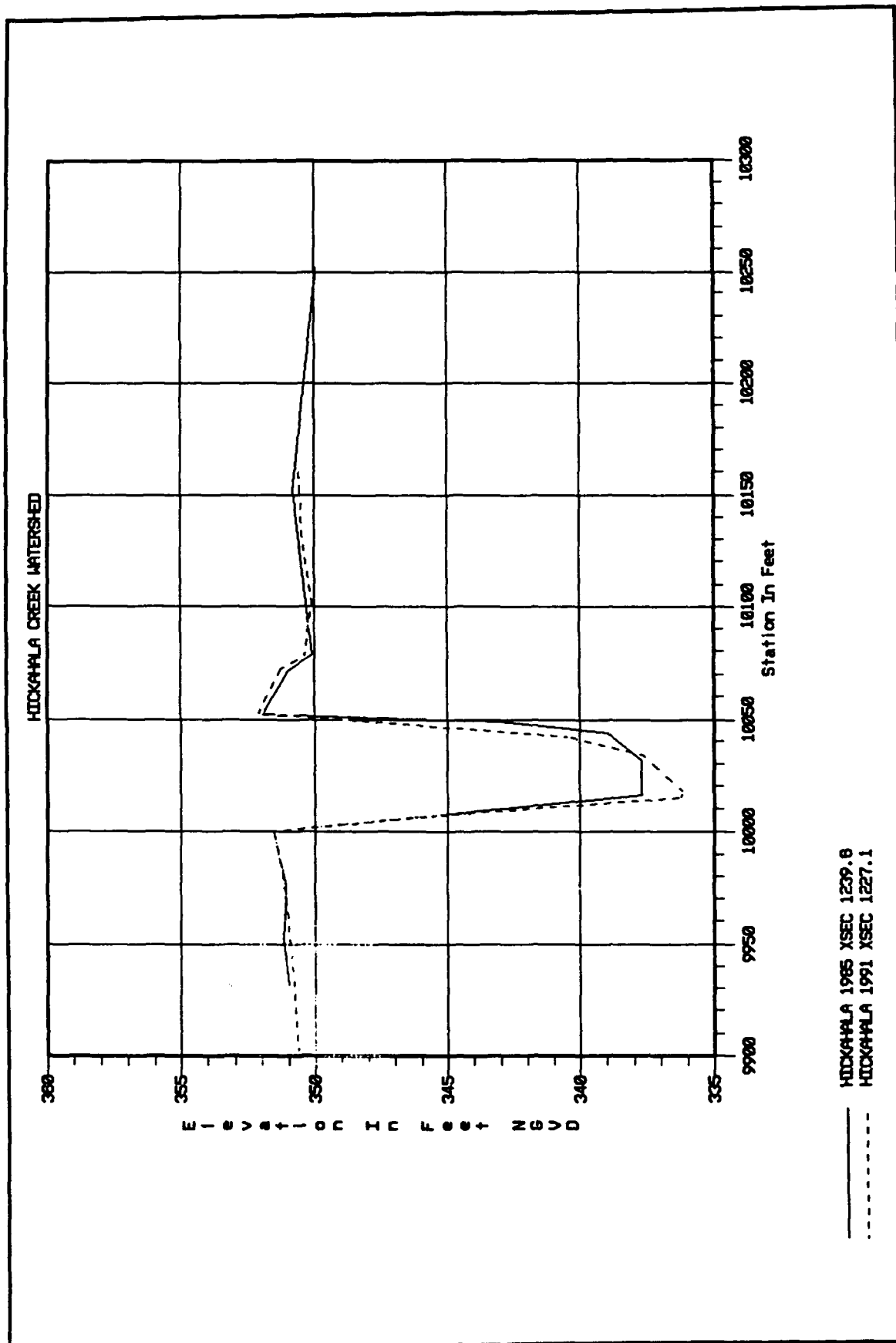
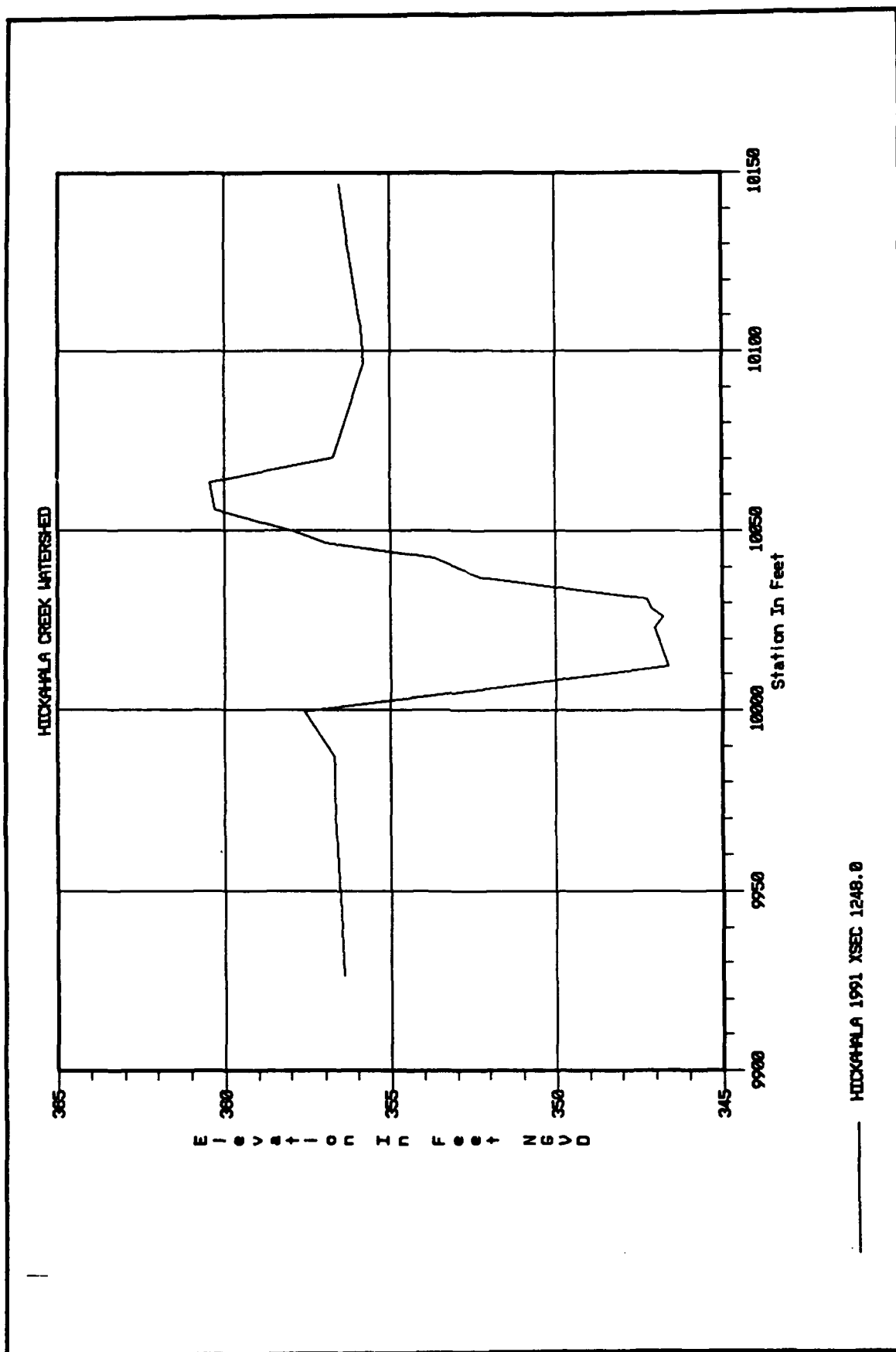
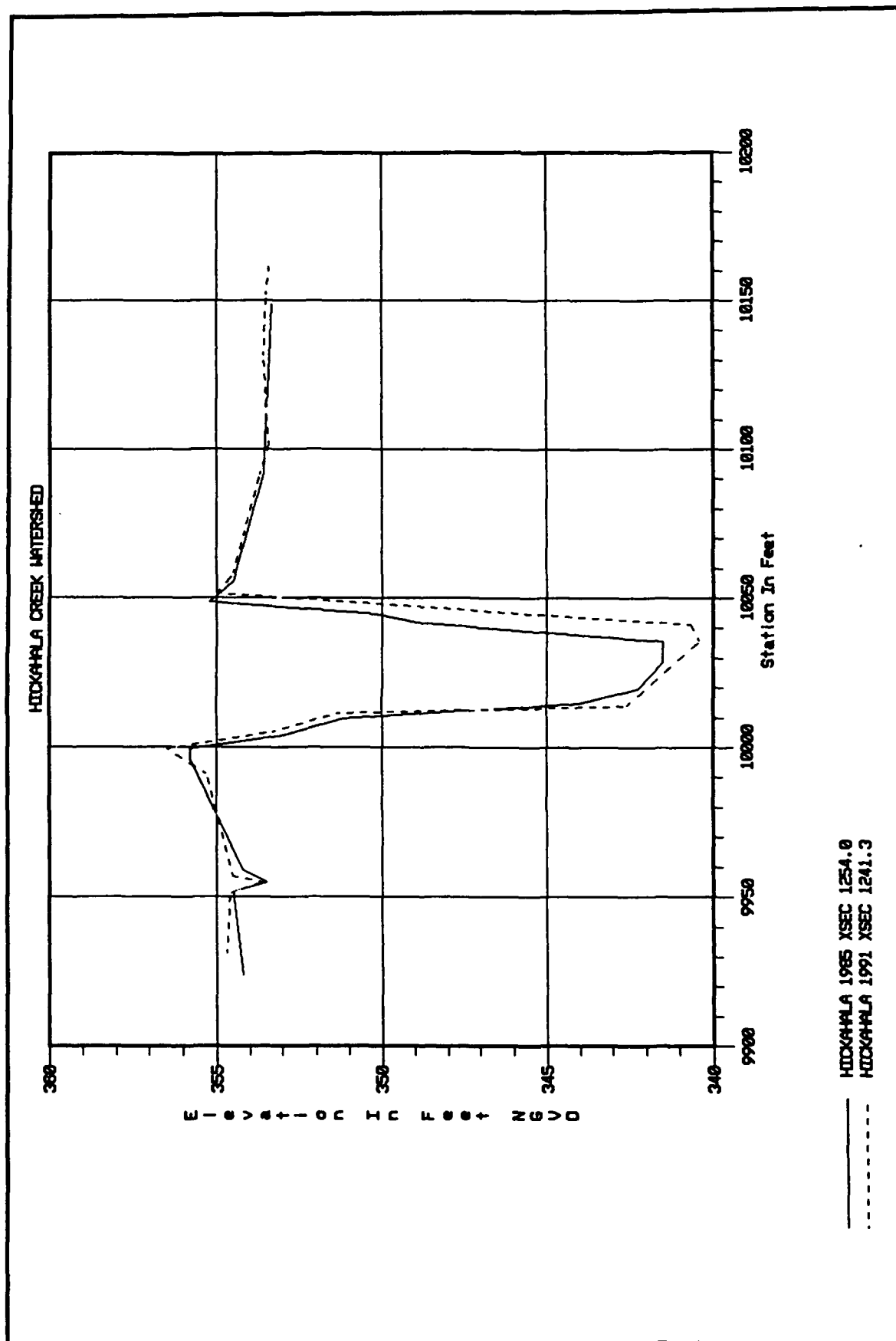


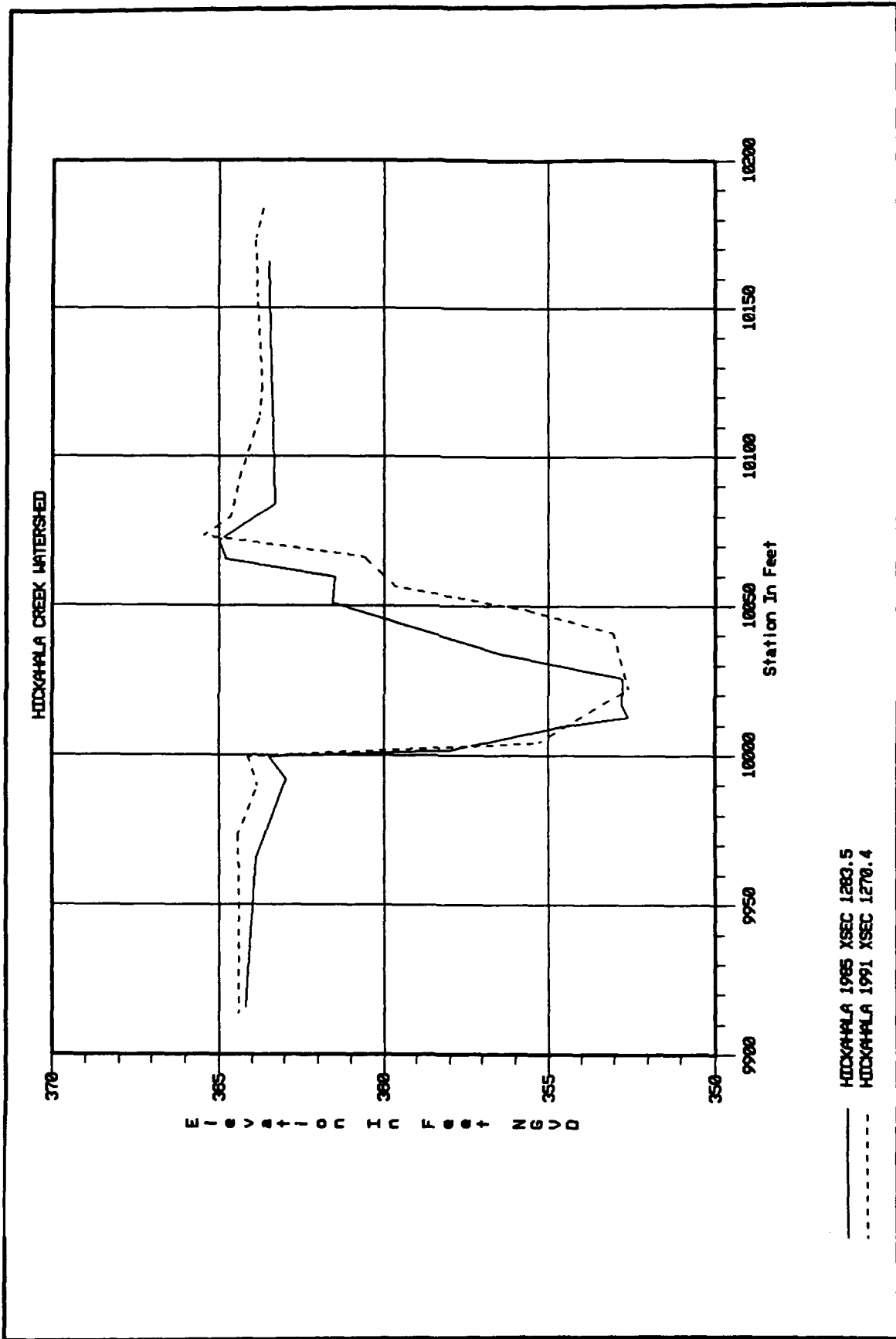
PLATE A178











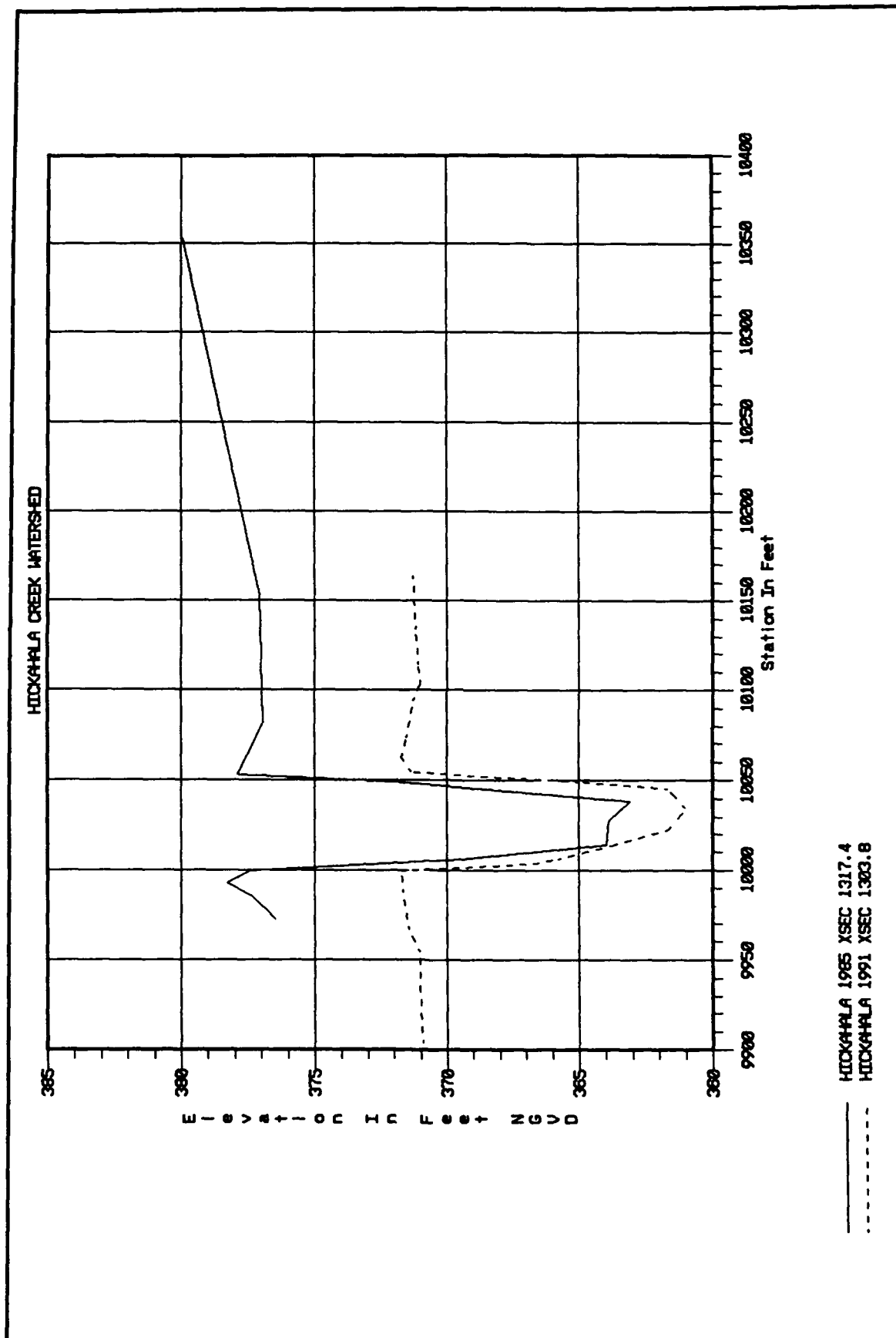
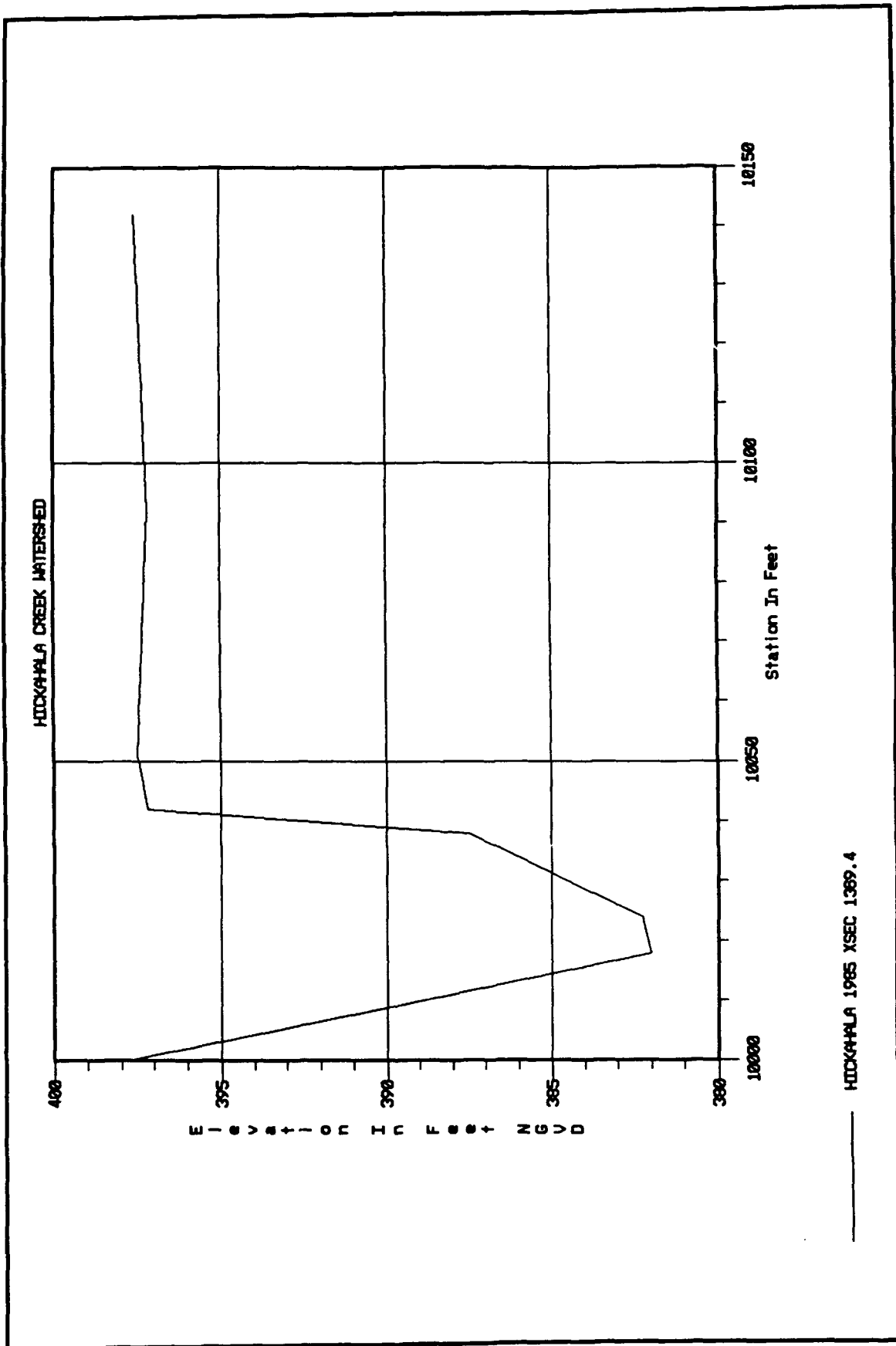


PLATE A184



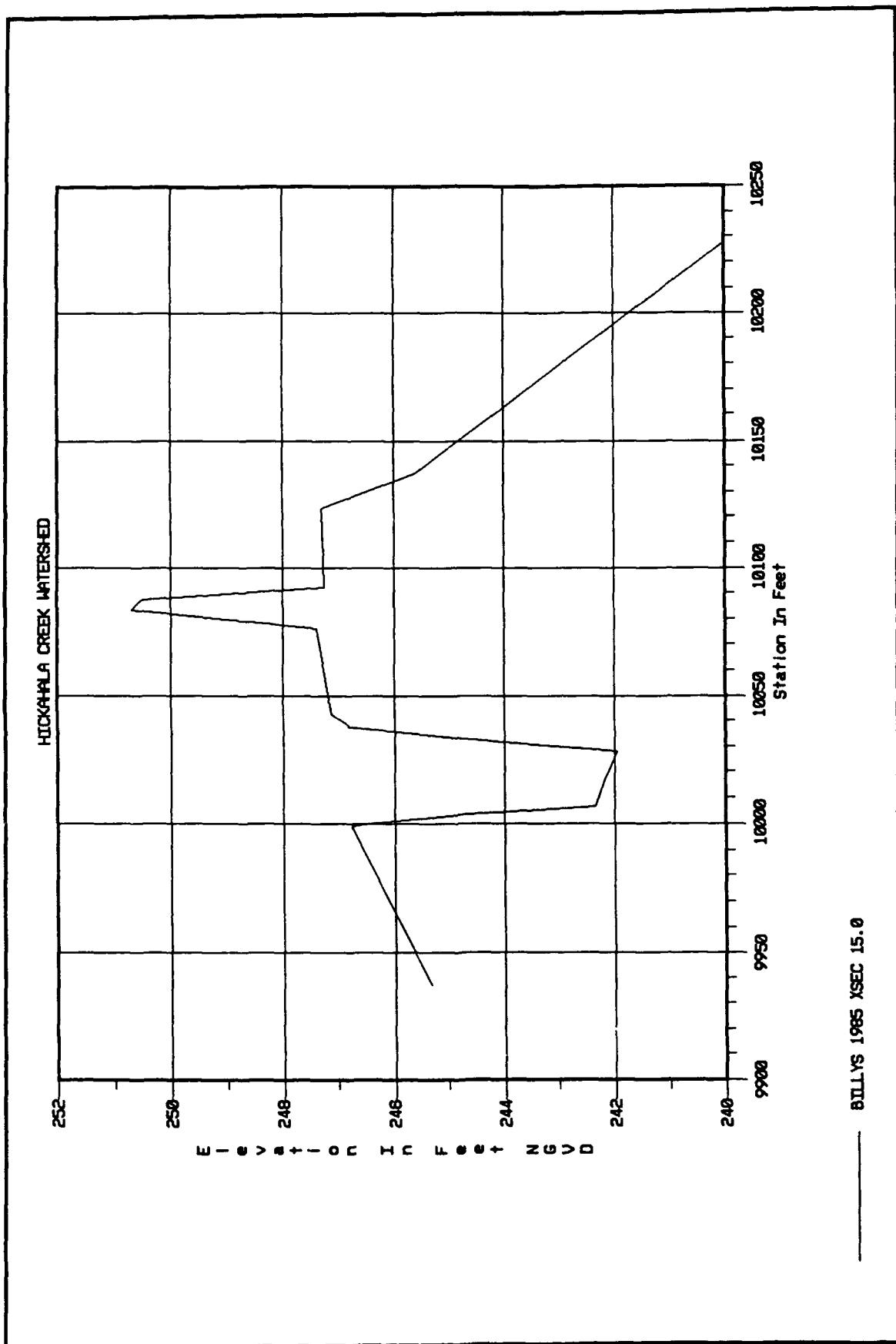
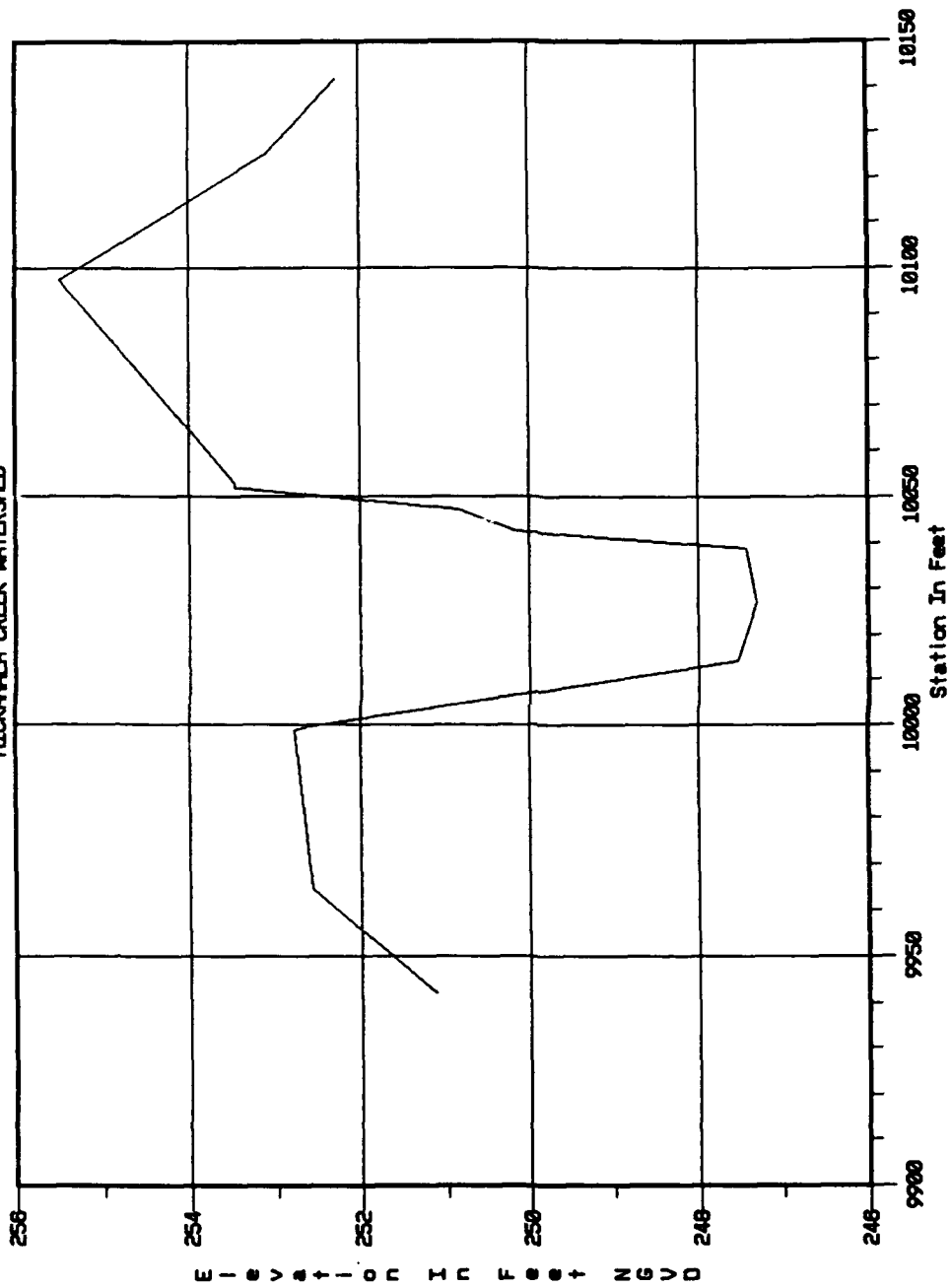


PLATE A186

HICKAHALA CREEK WATERSHED



— BILLYS 1985 XSEC 34.45

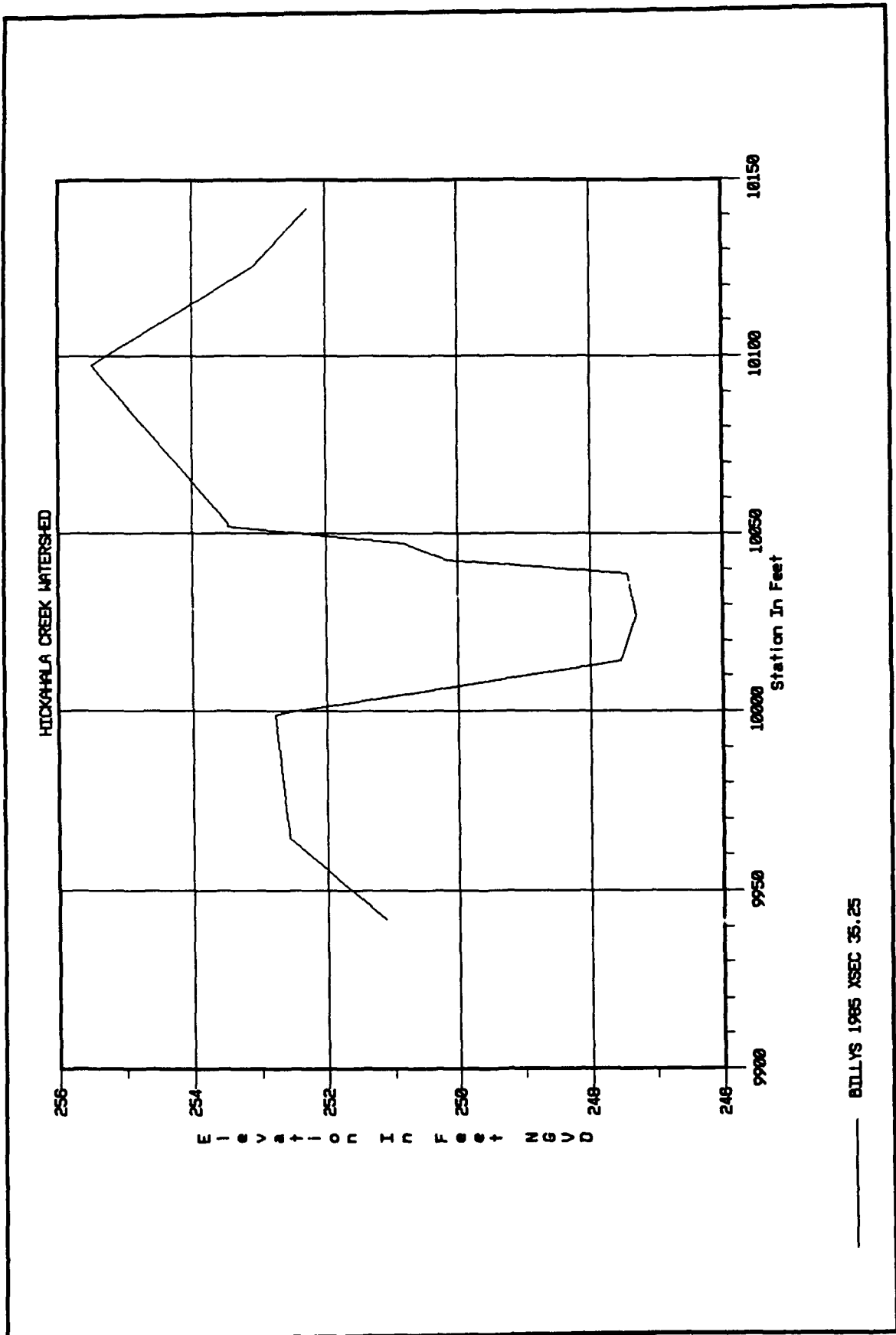
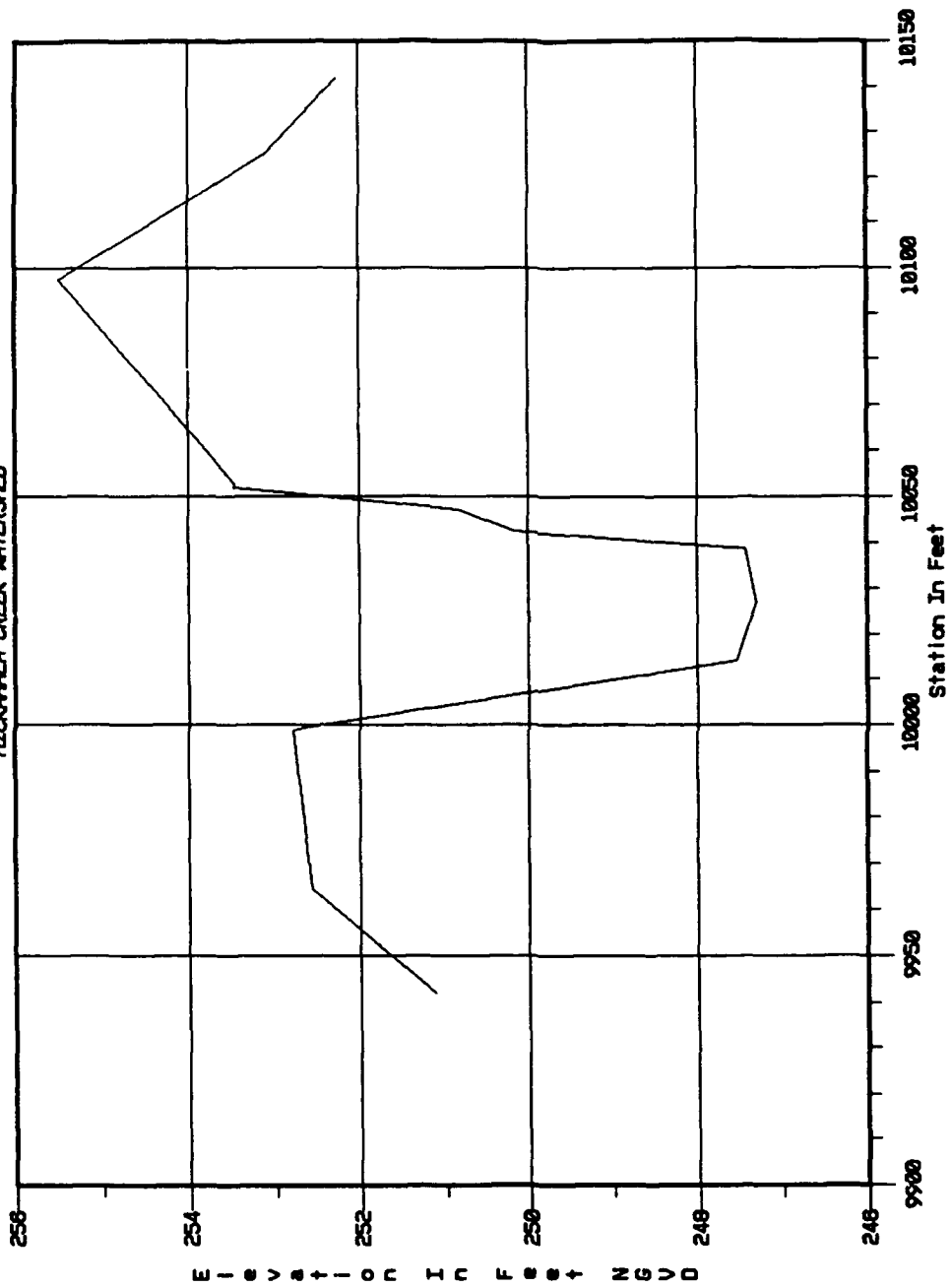
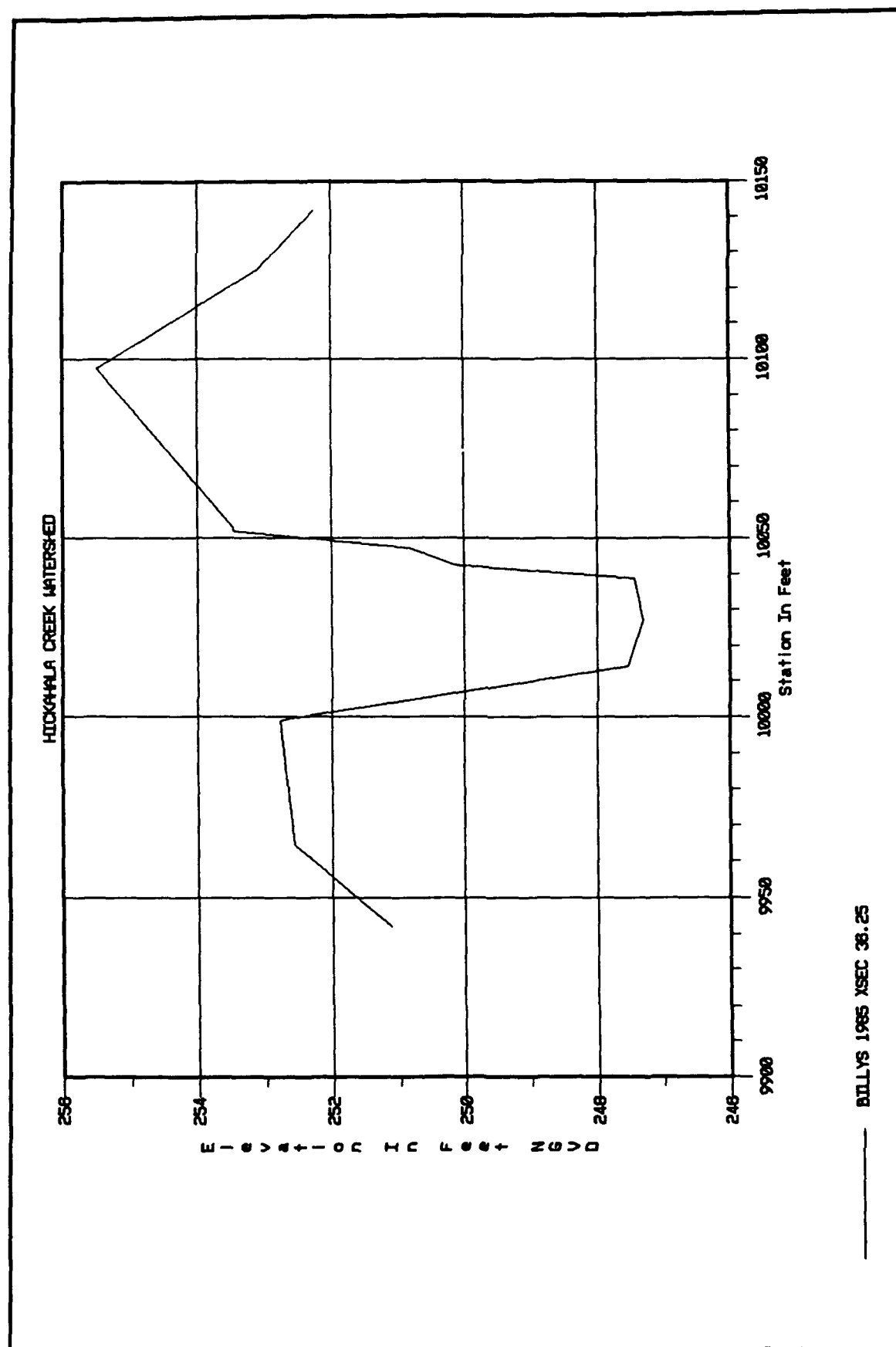


PLATE A188

HICKHALL CREEK WATERSHED



BILLYS 1985 XSEC 35.55



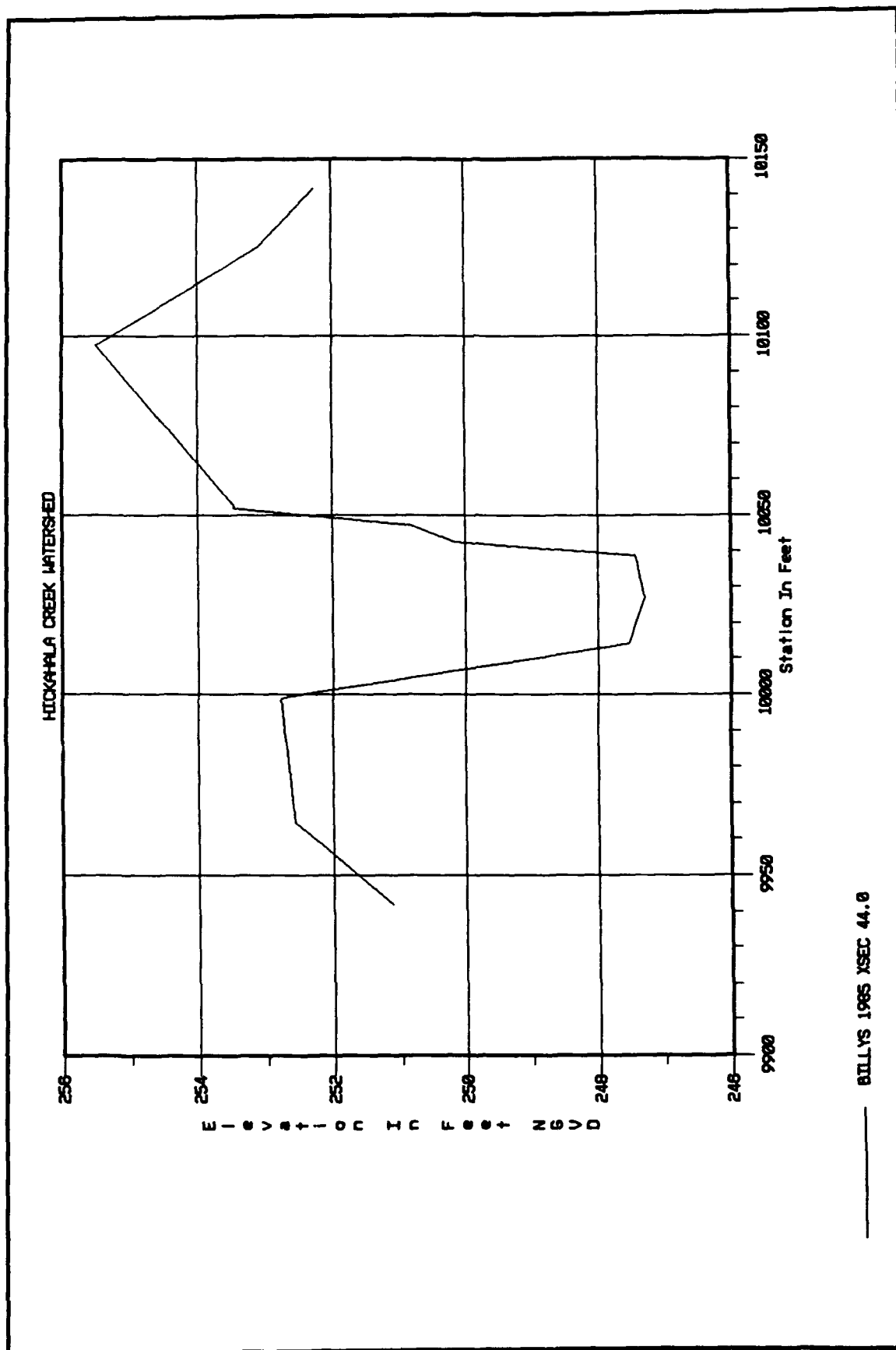
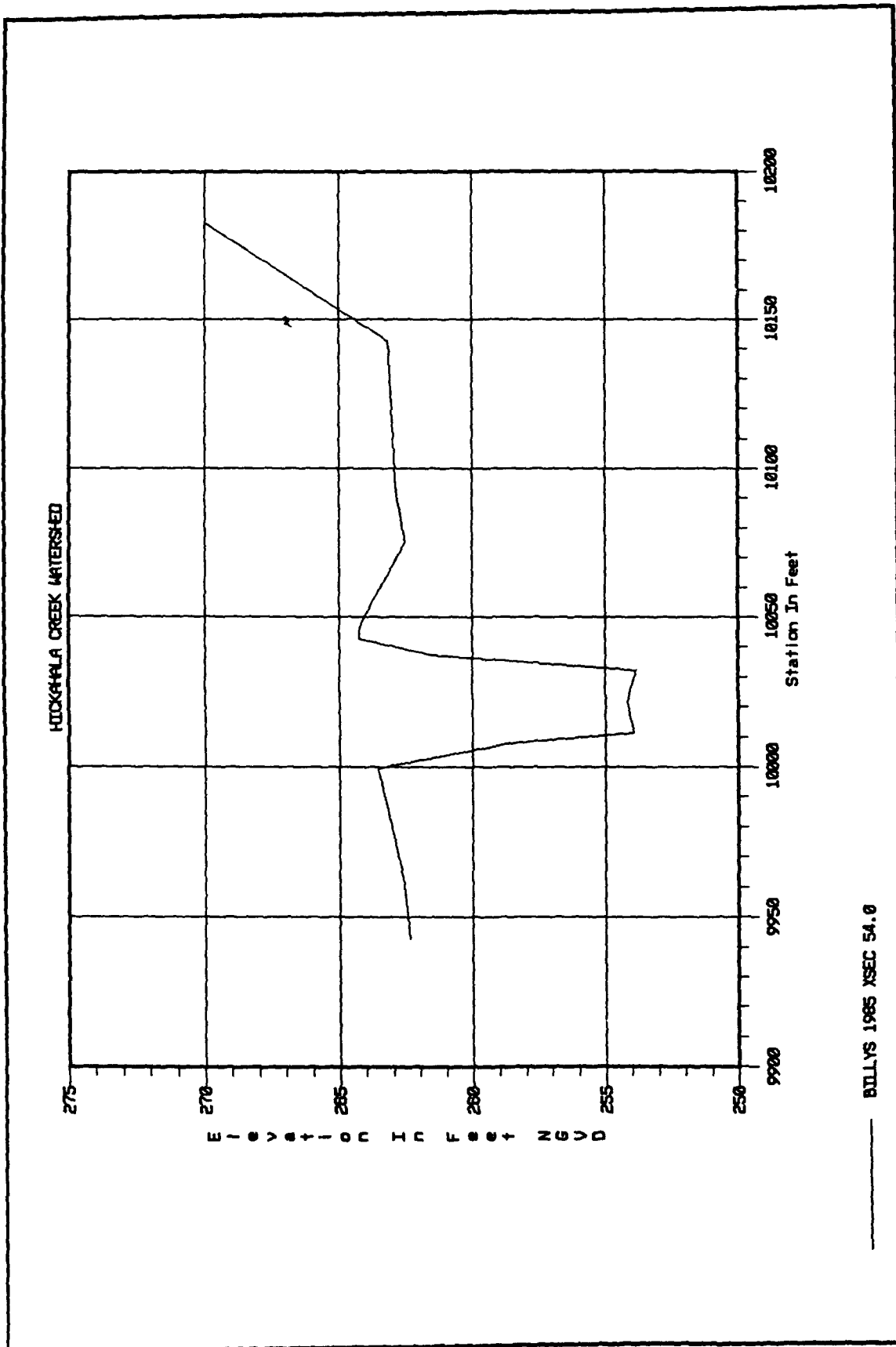
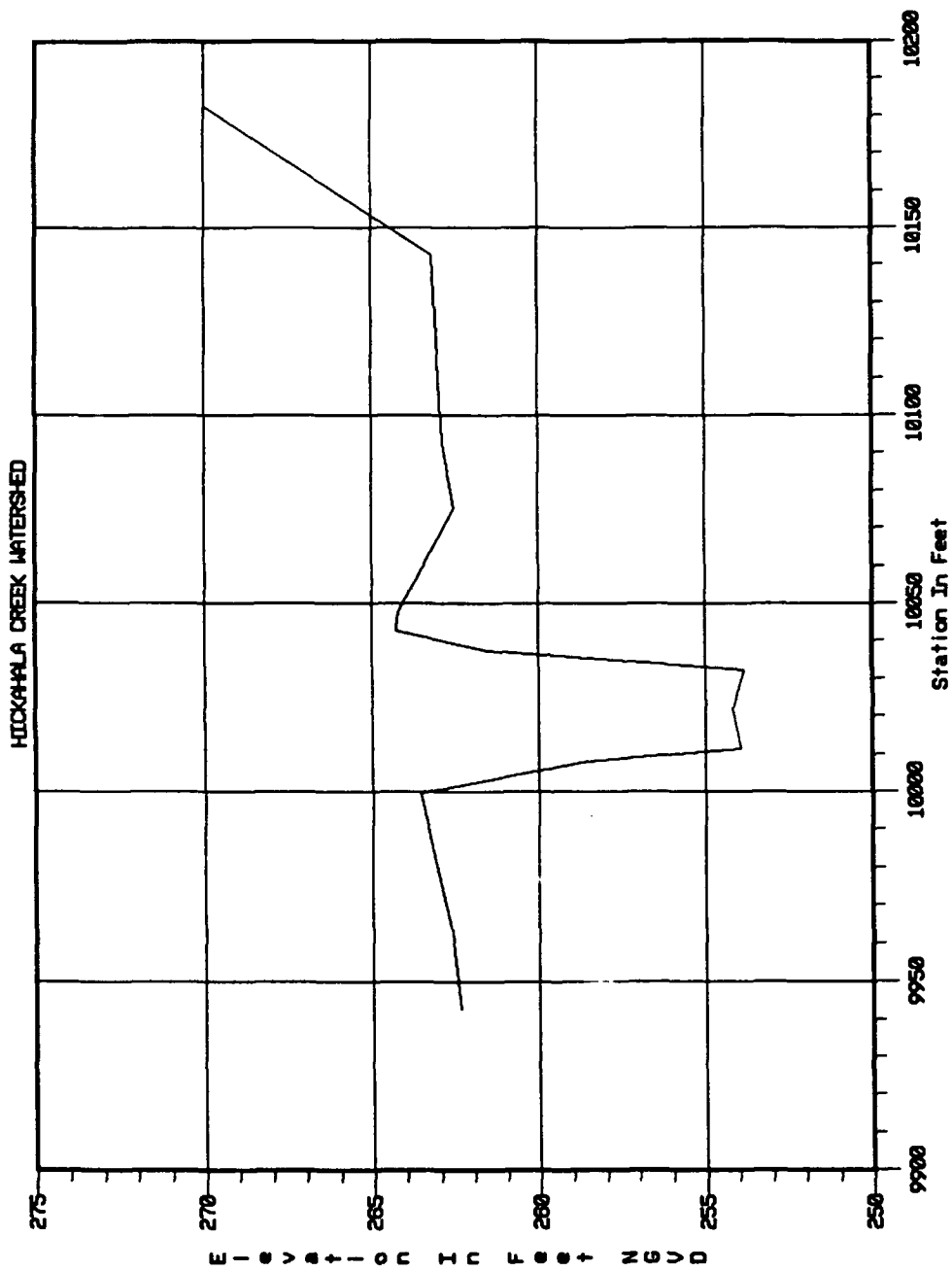


PLATE A191





_____ BILLYS 1985 XSEC 84.0

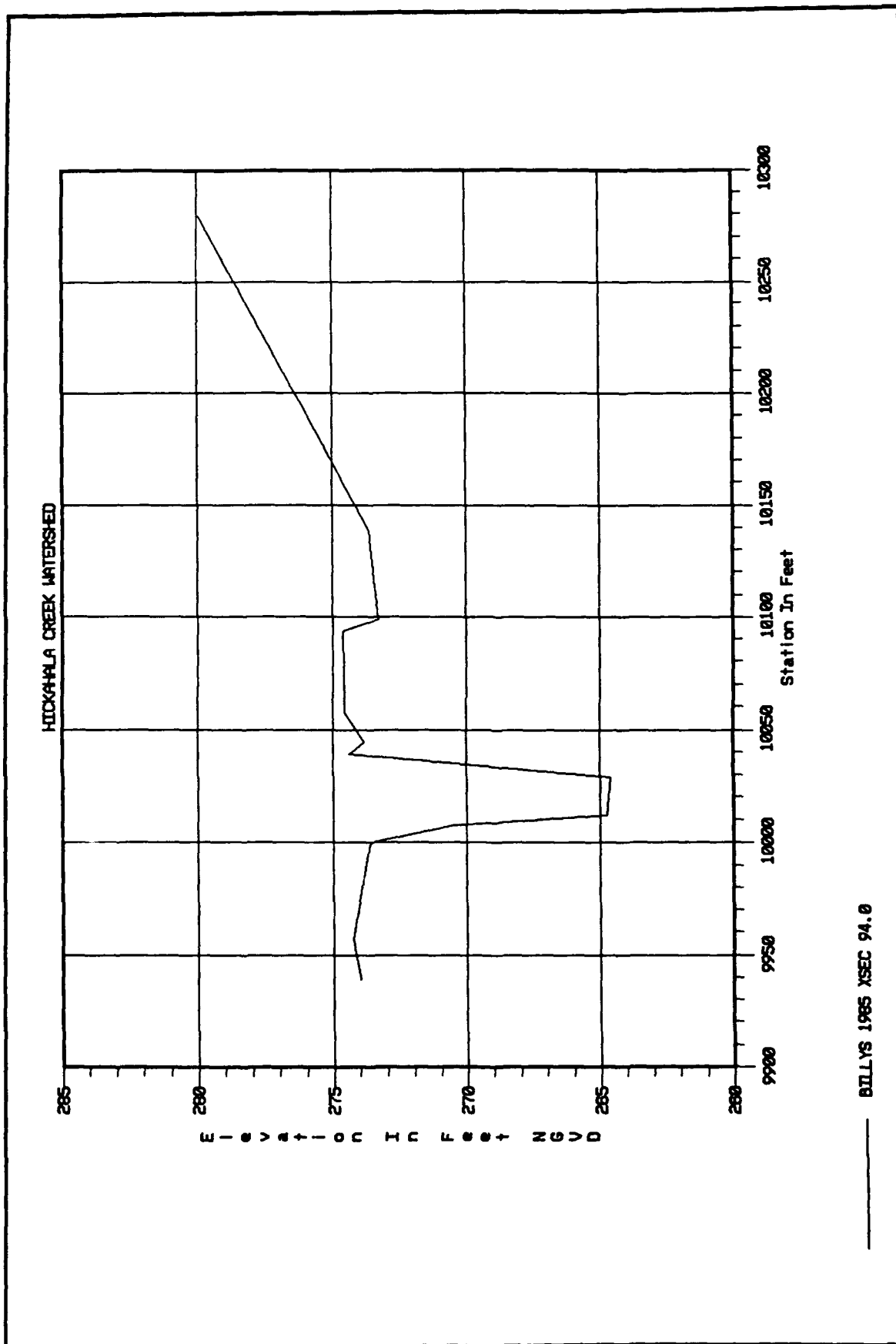
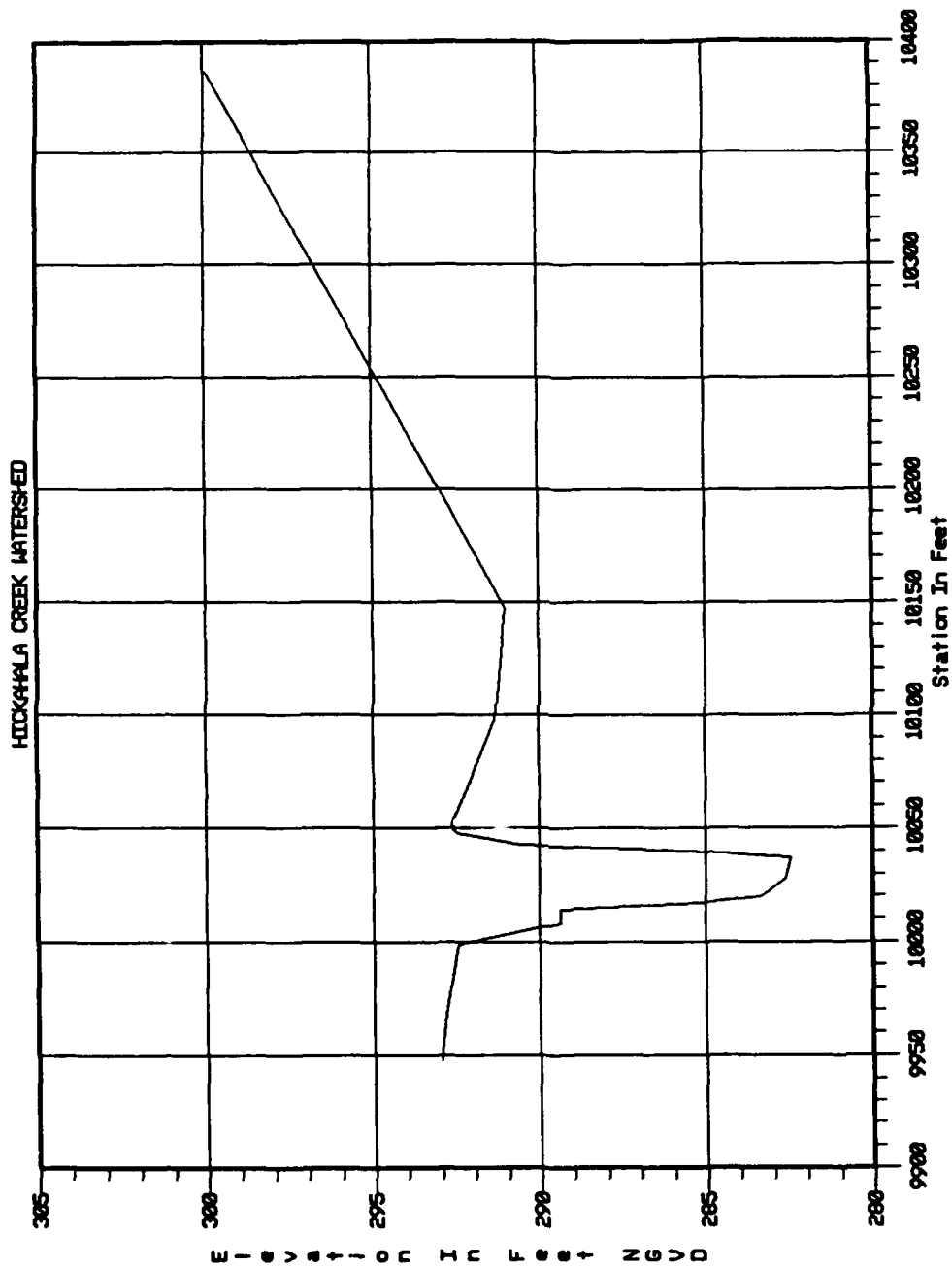
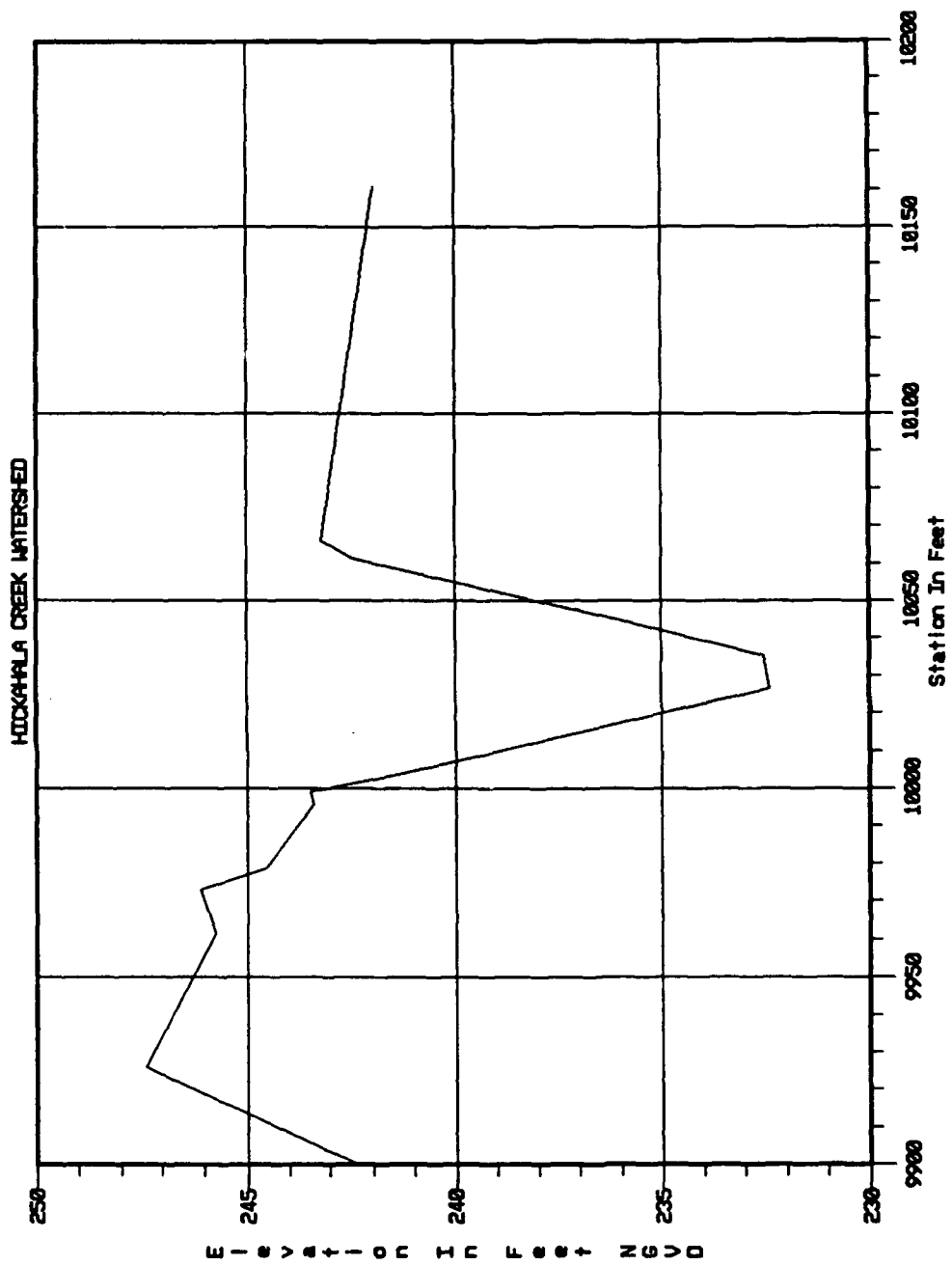


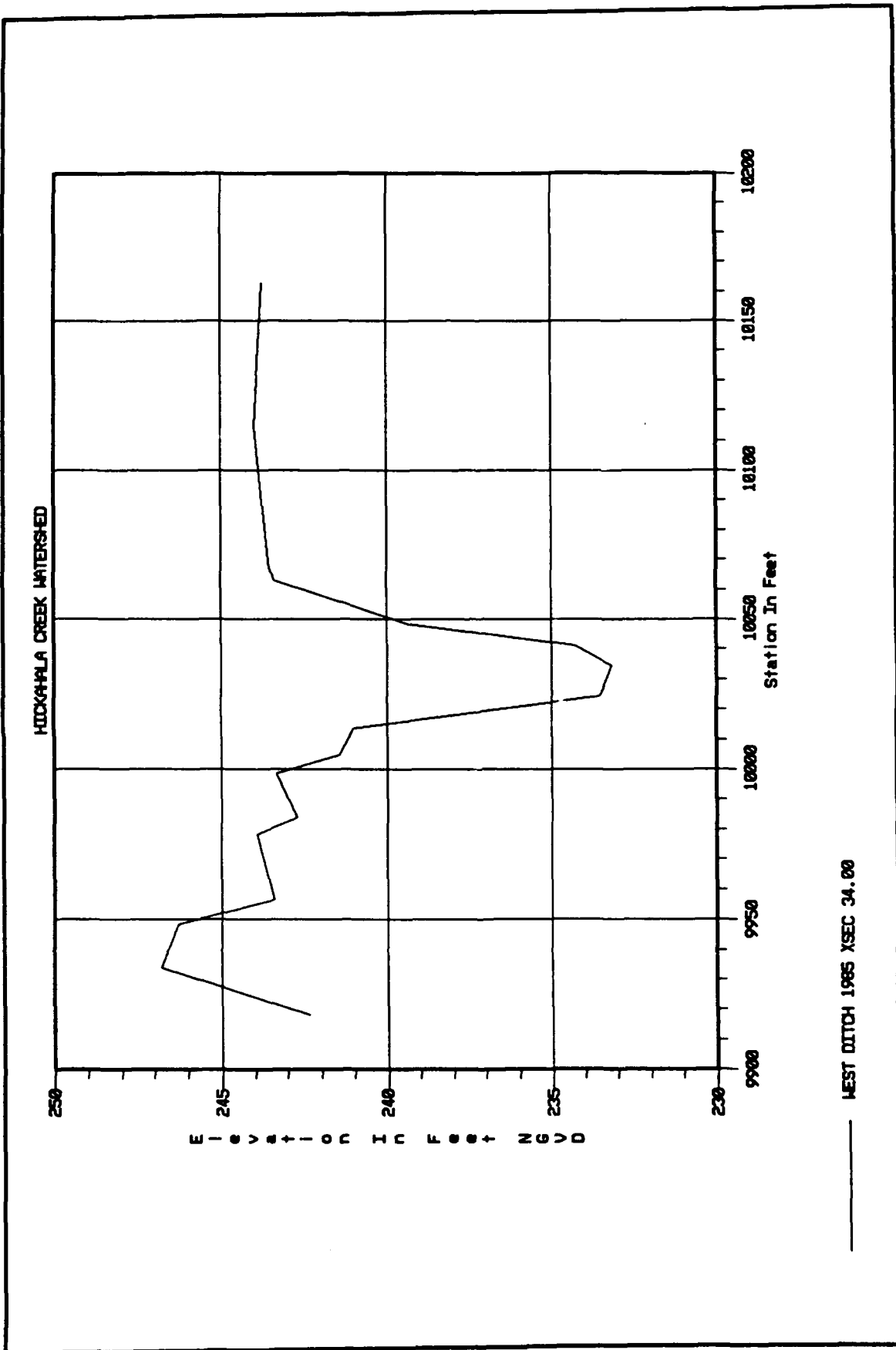
PLATE A194



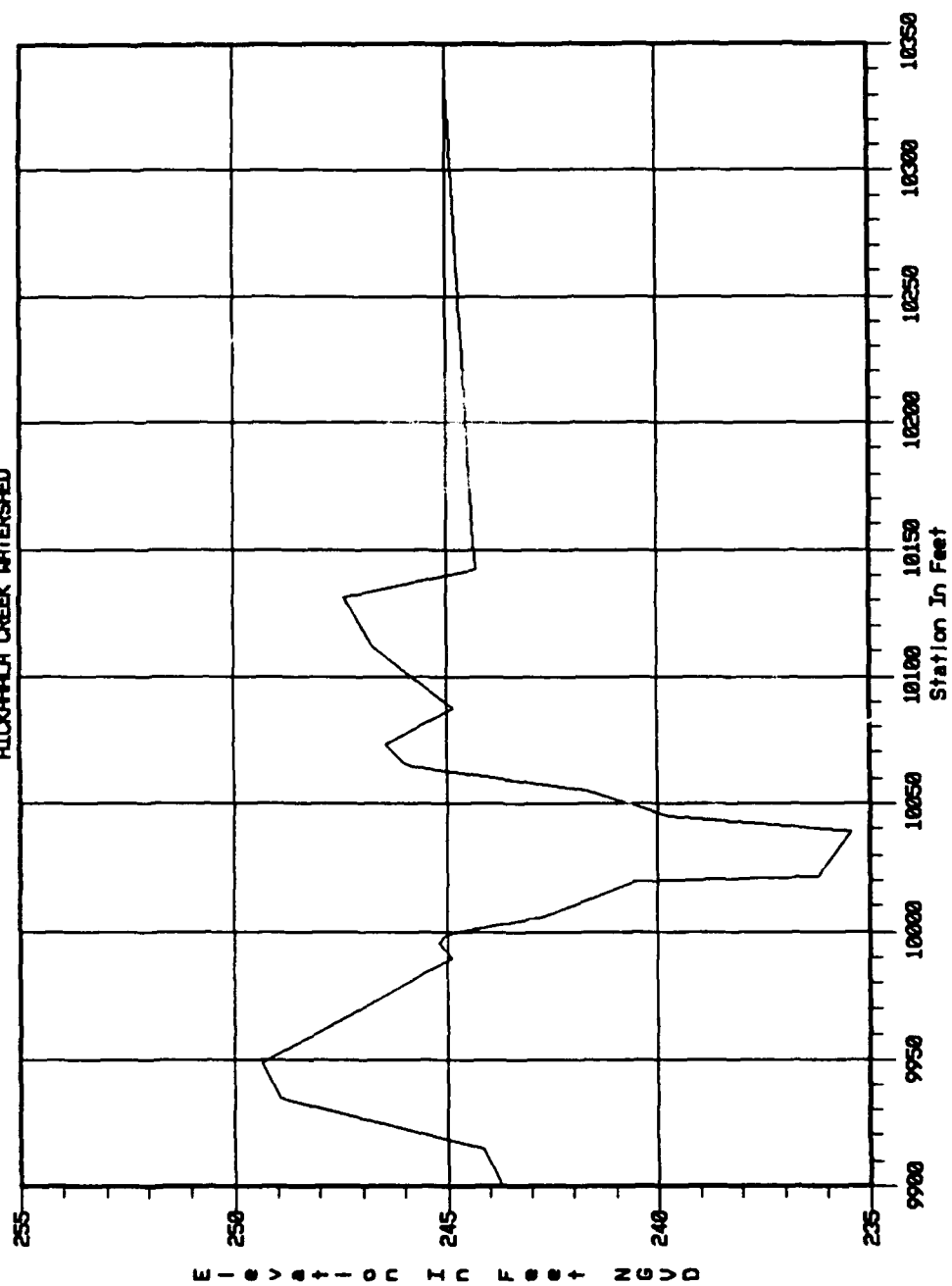
— BILLYS 1985 XSEC 131.2



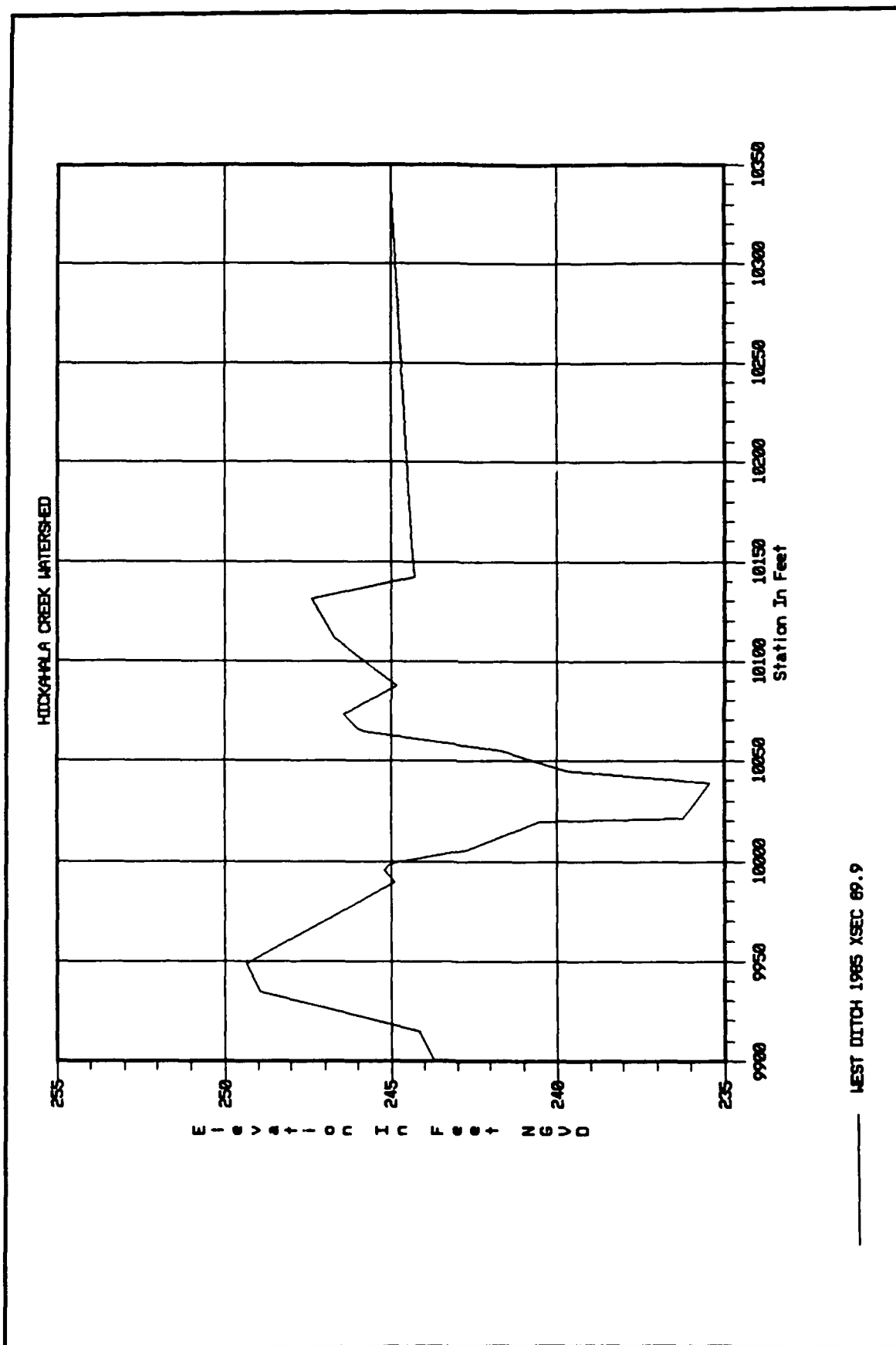
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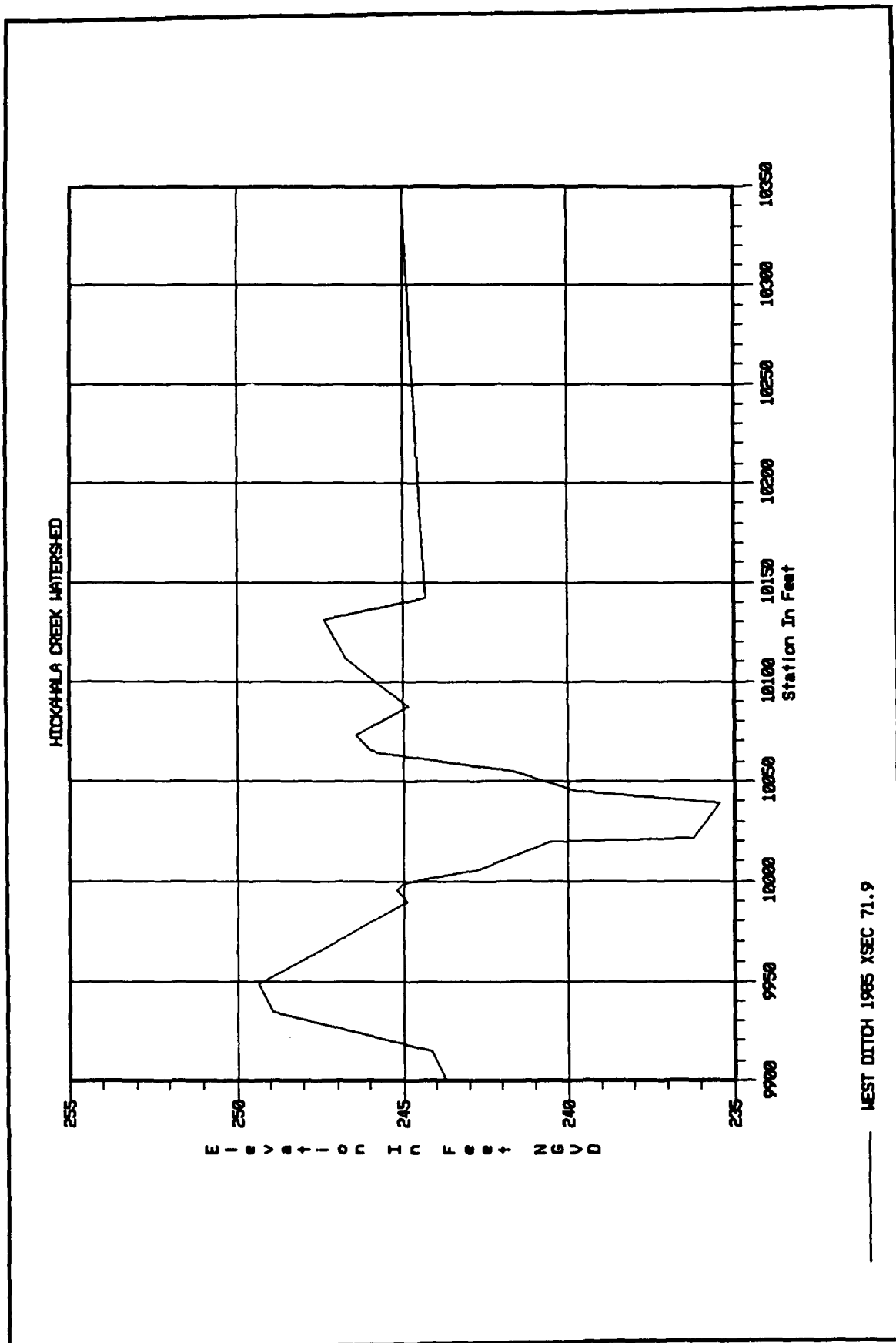


HICKAHULA CREEK WATERSHED



WEST DITCH 1965 XSEC 62.30





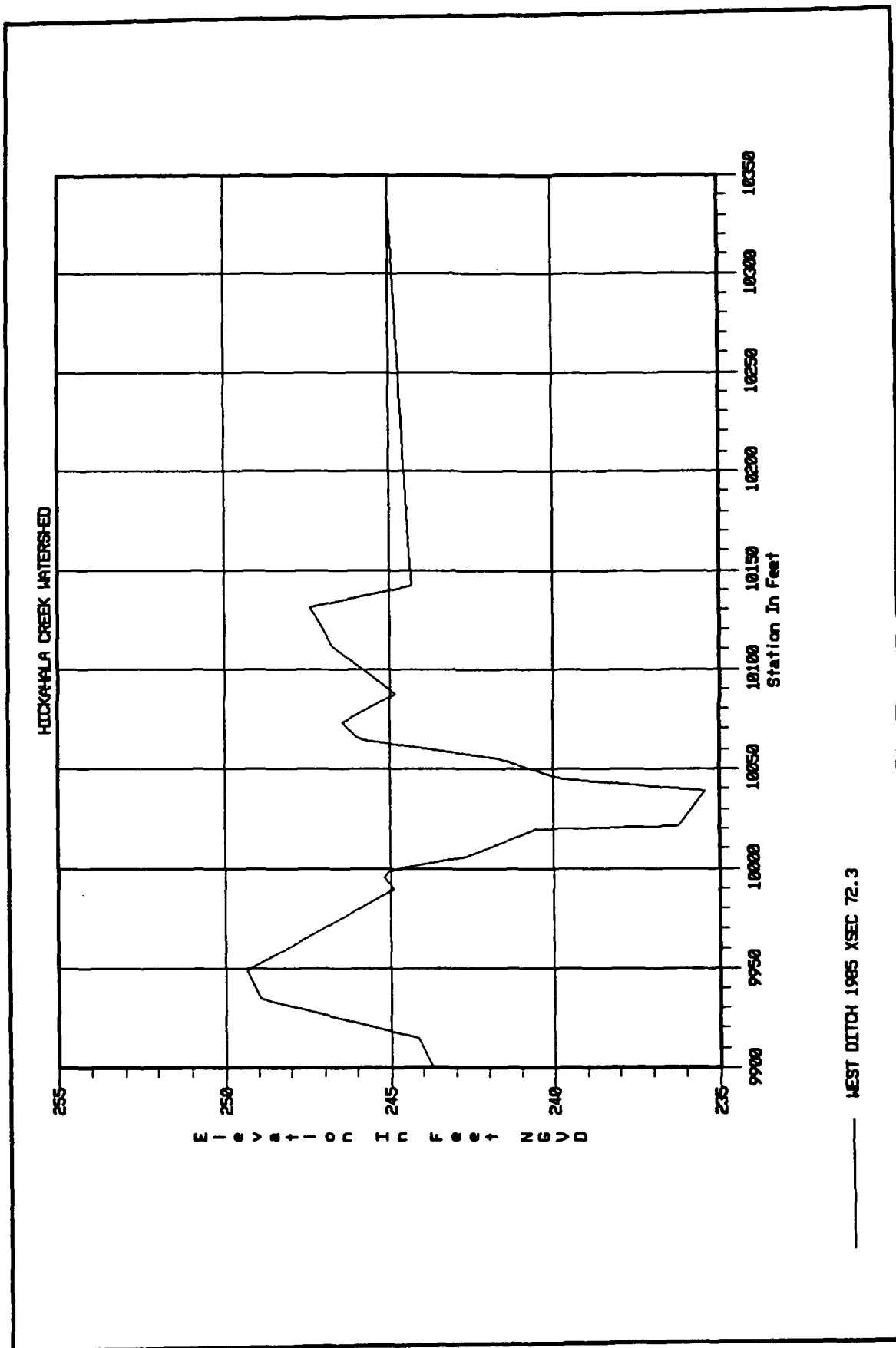
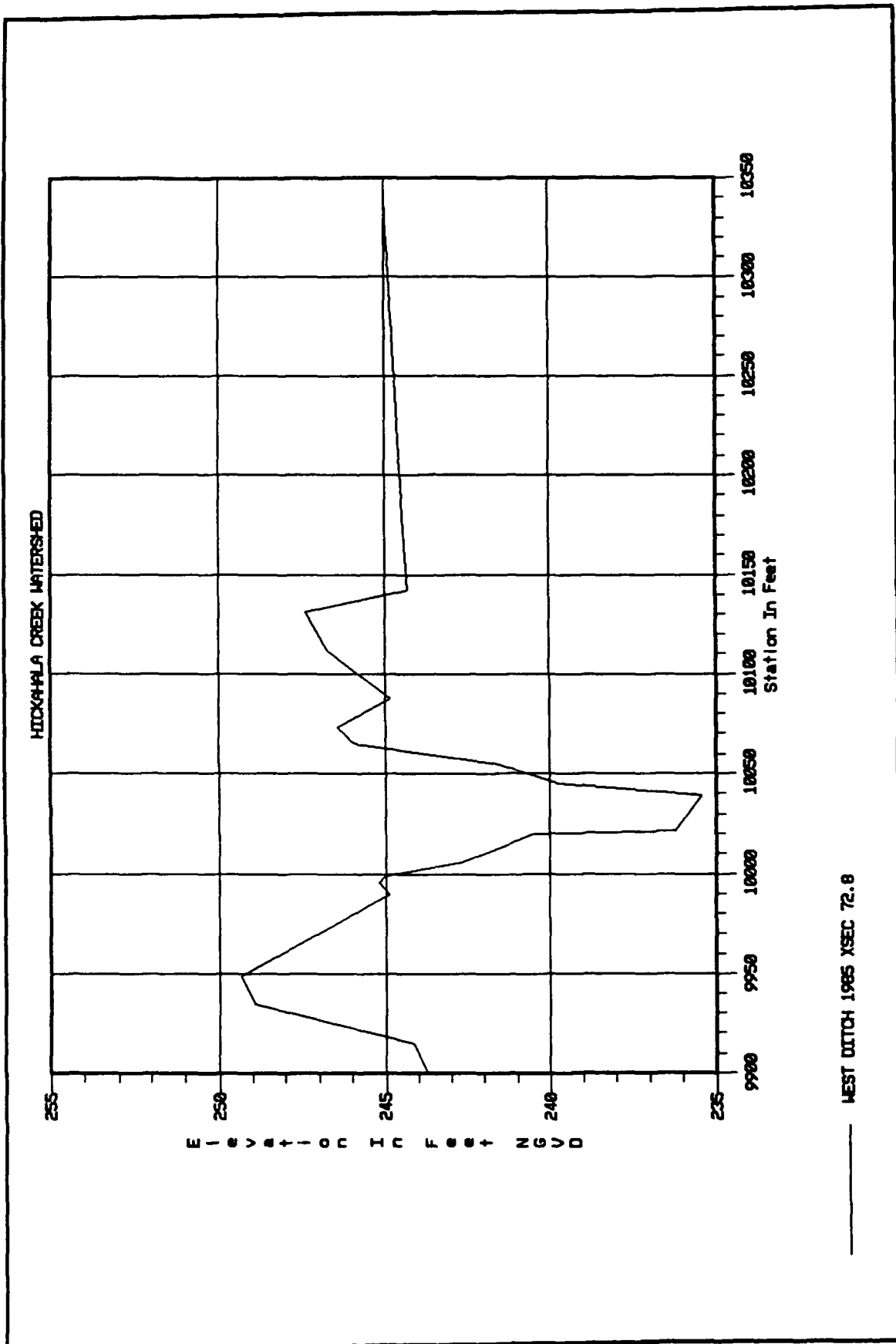
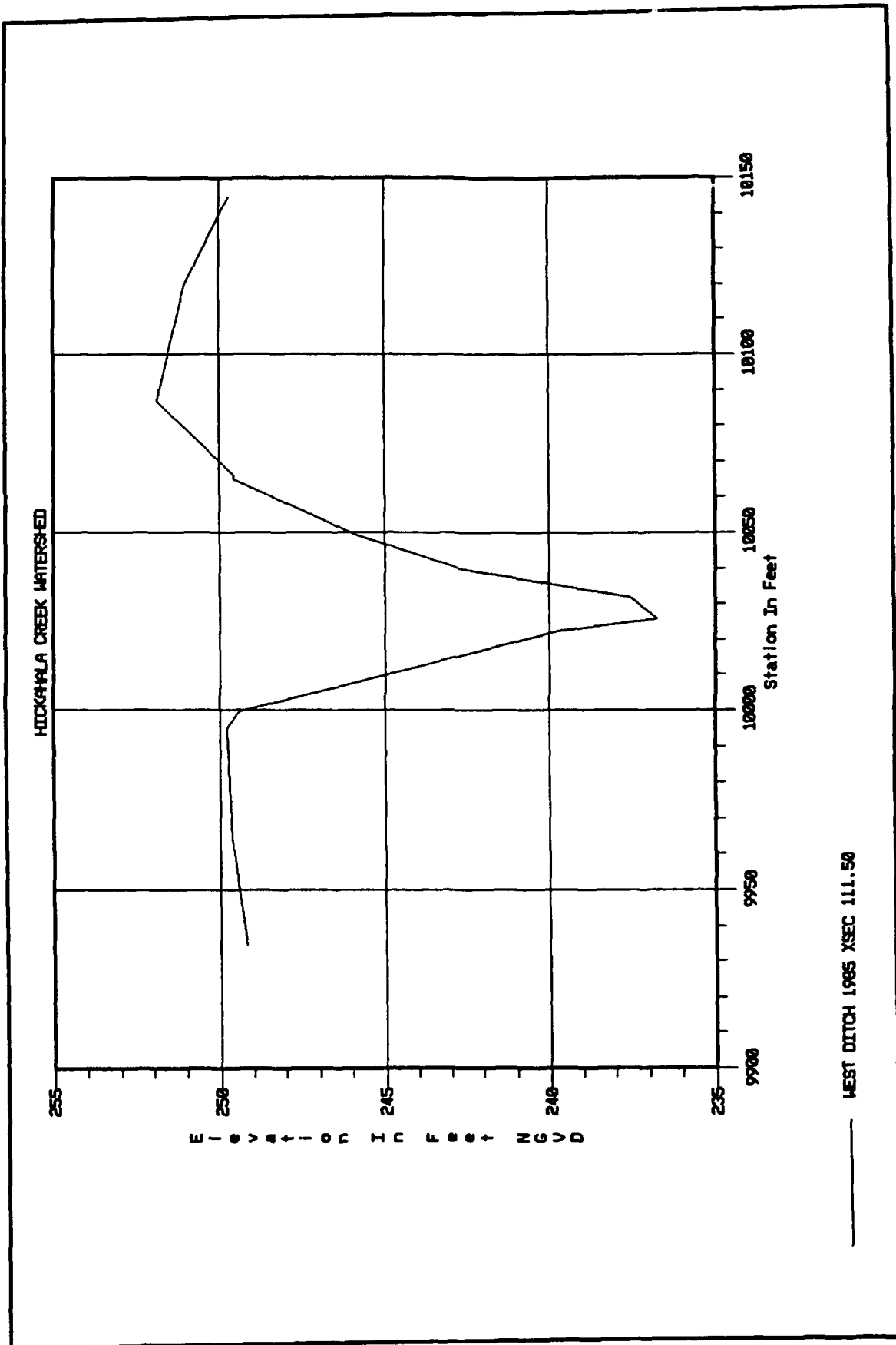
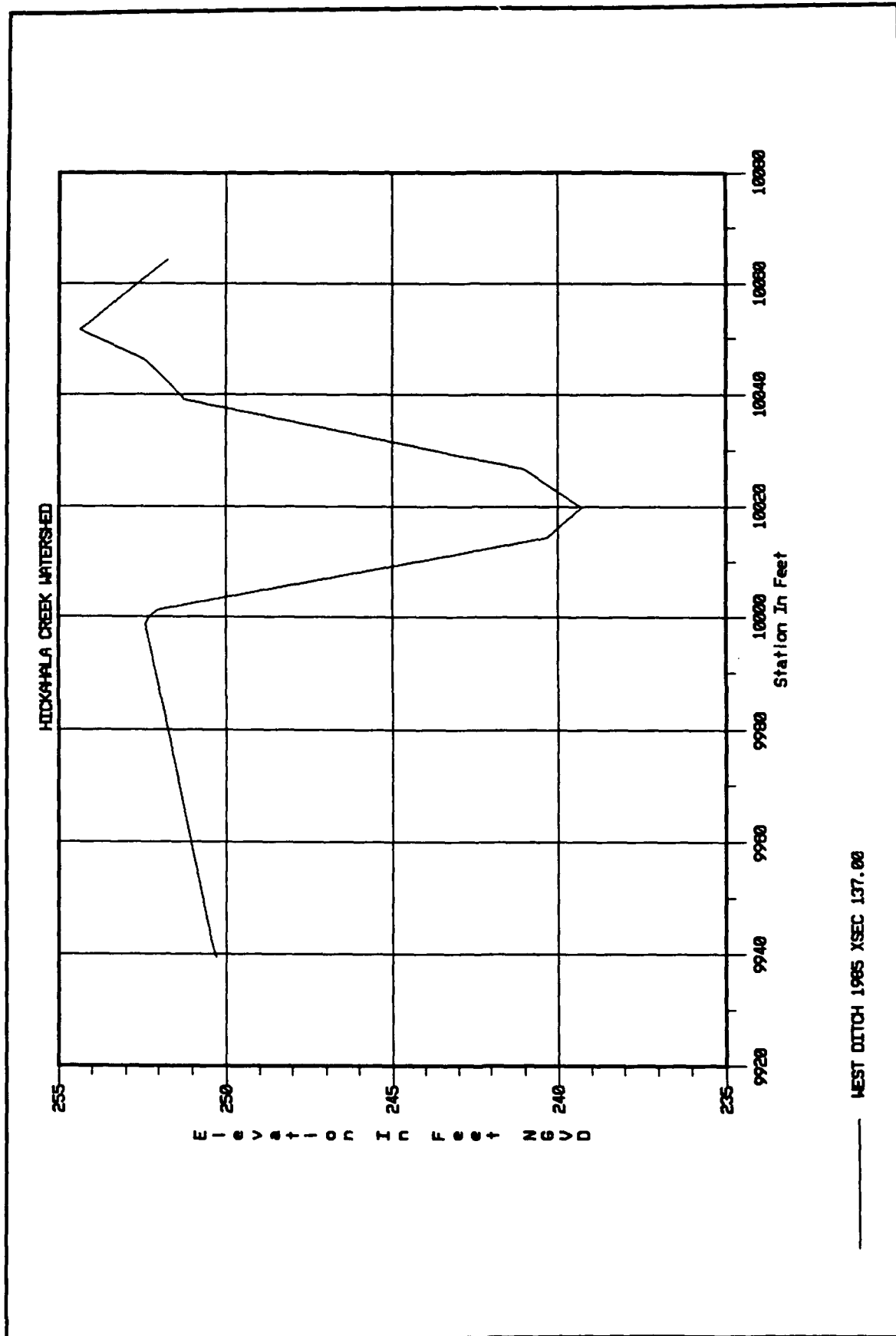
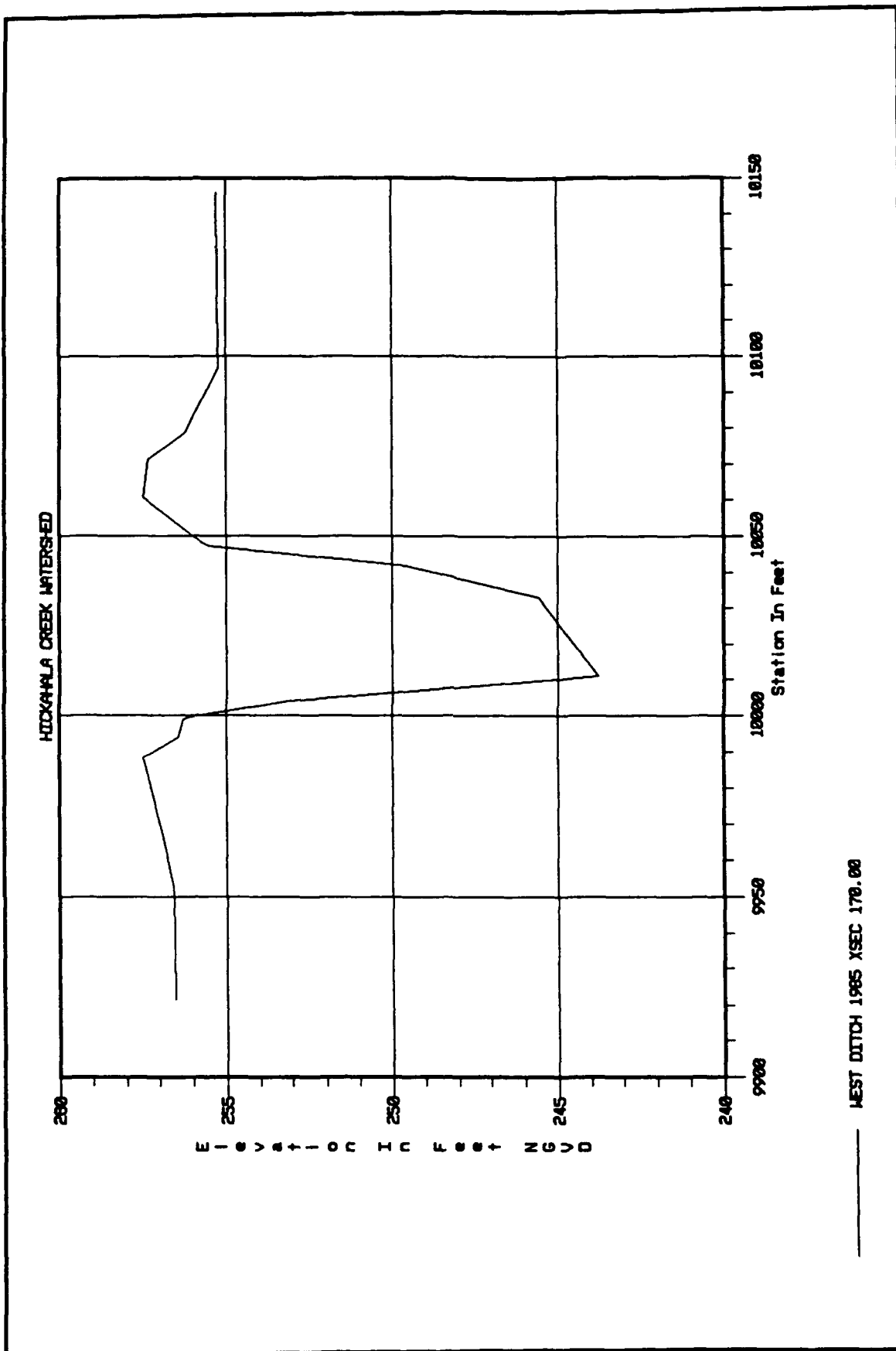


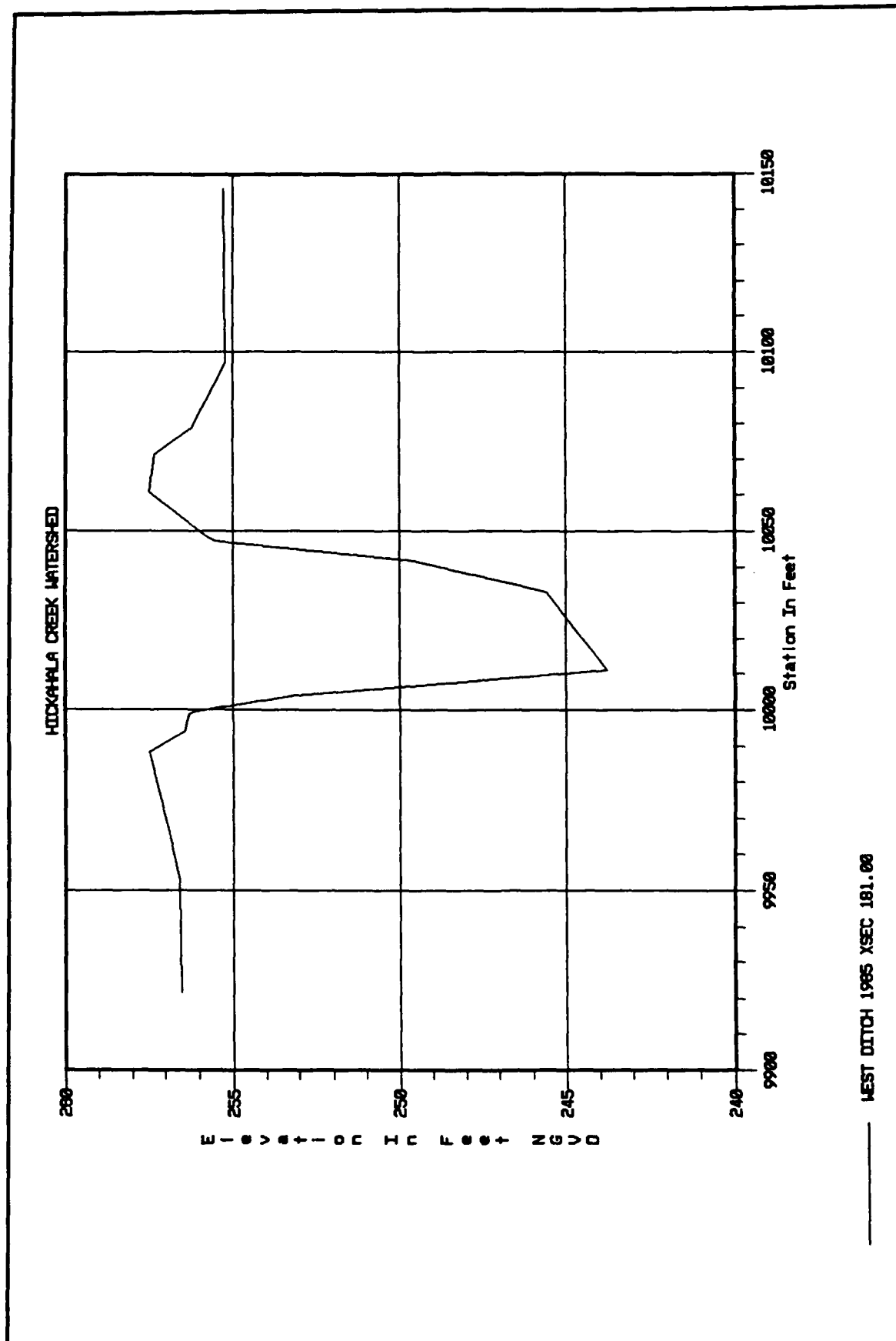
PLATE A201

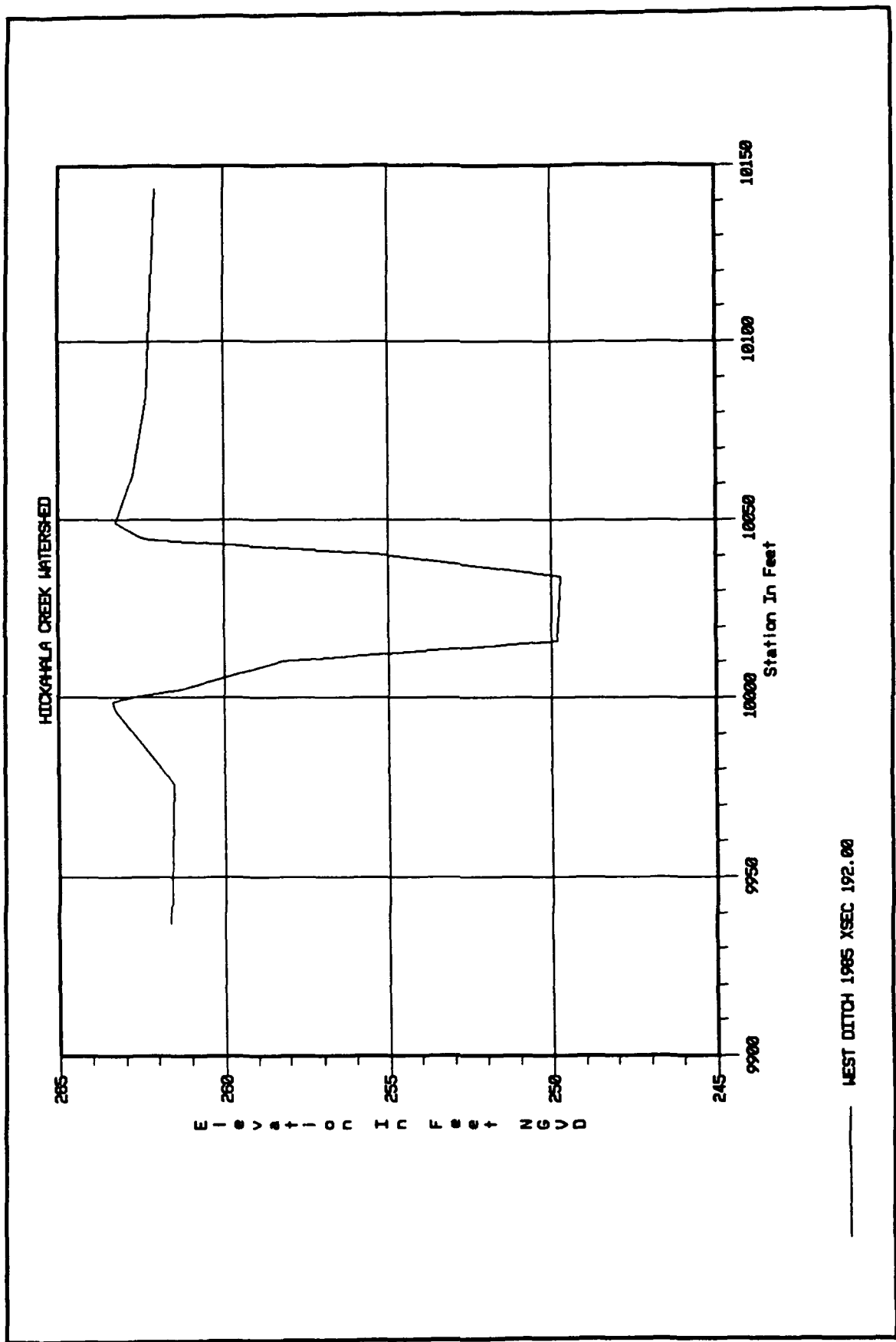


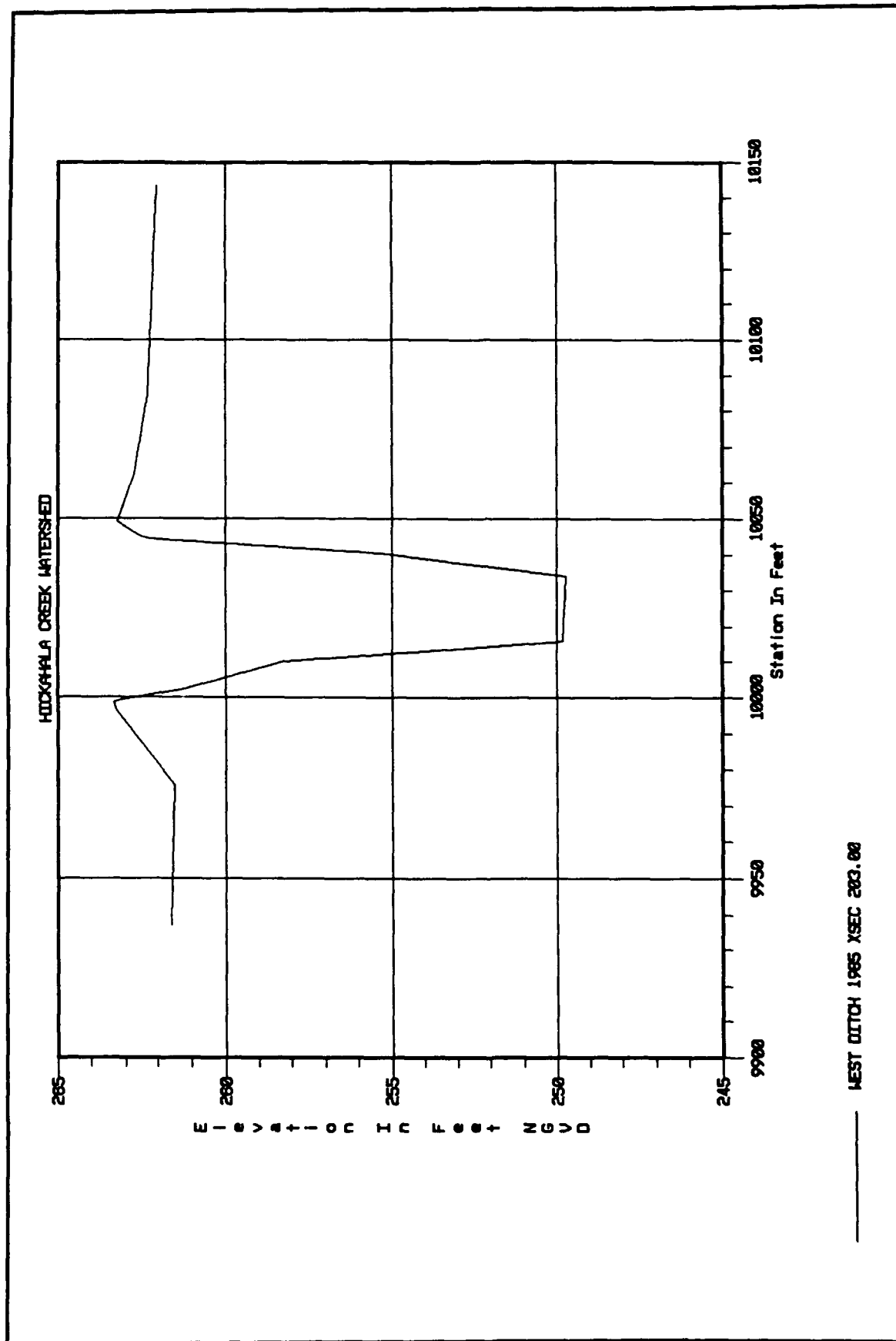


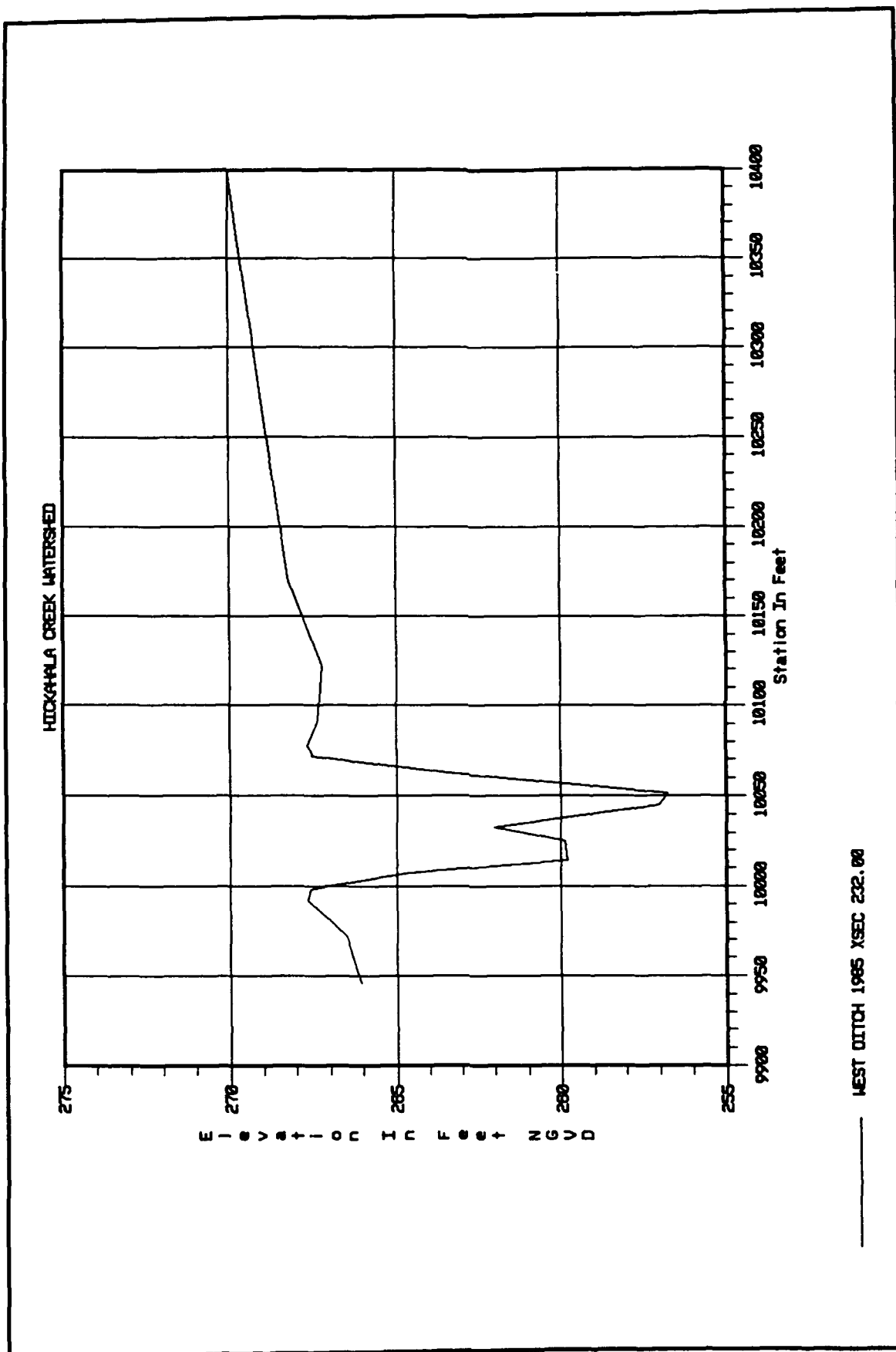












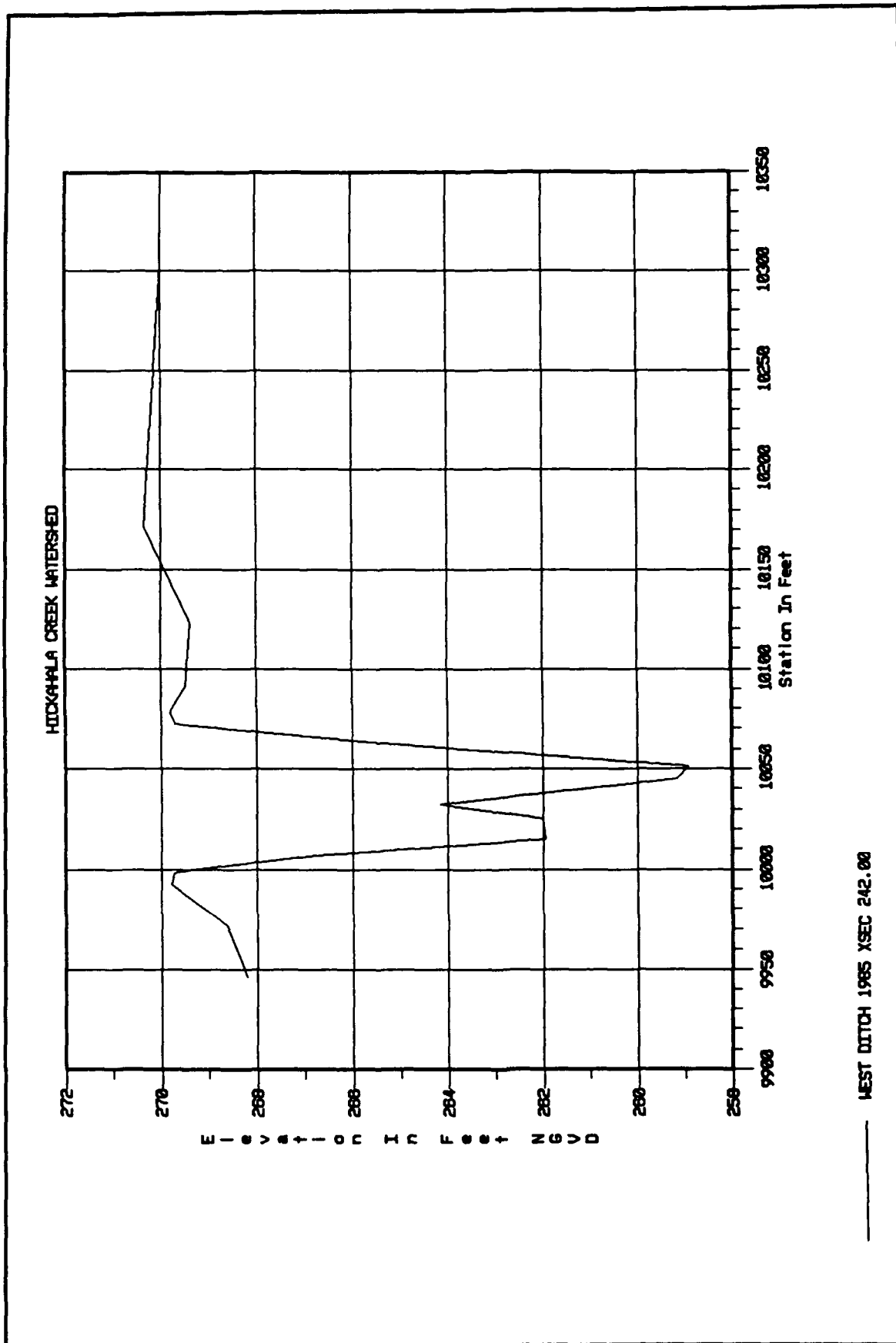
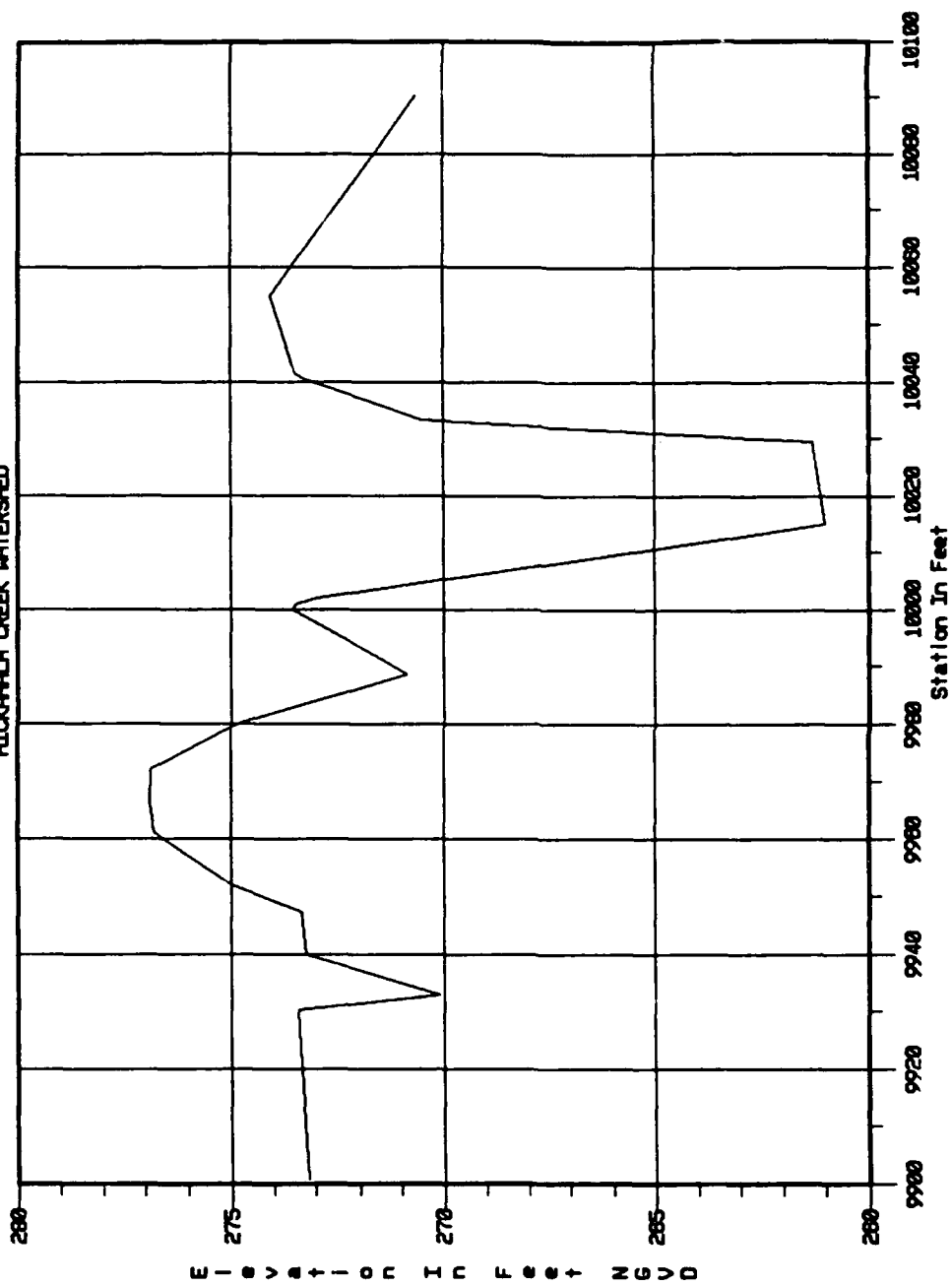
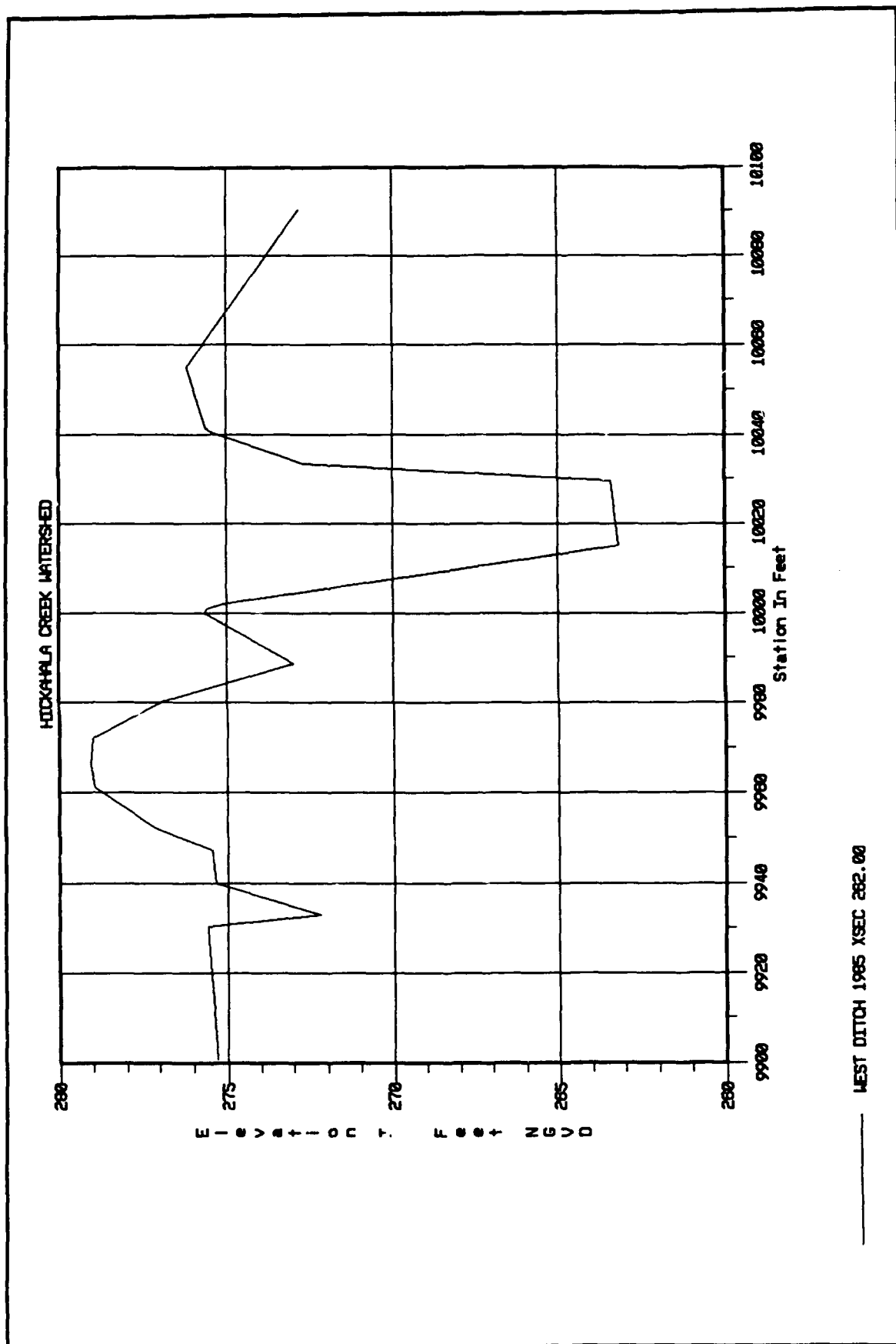


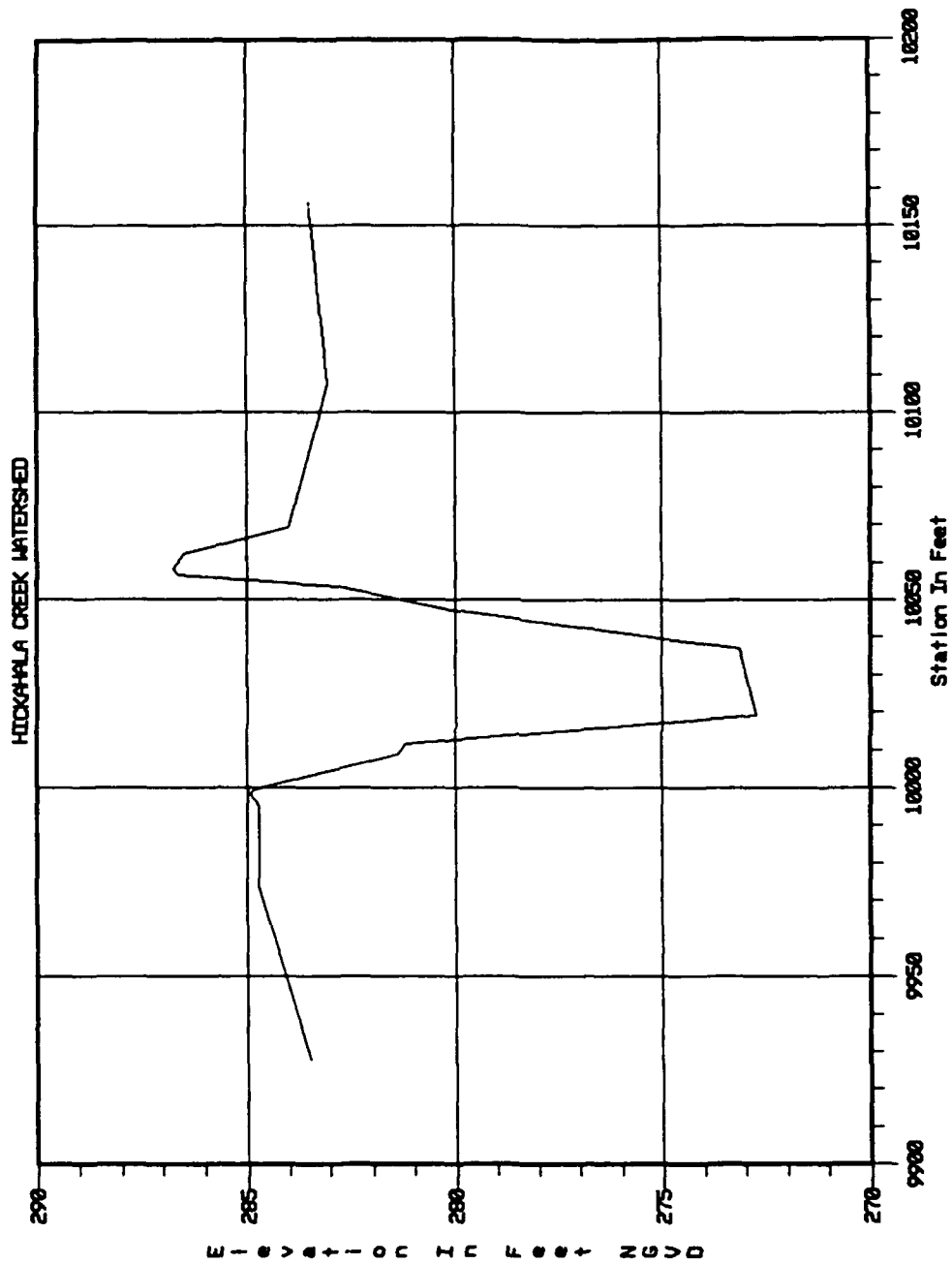
PLATE A210

HICKAHULA CREEK WATERSHED

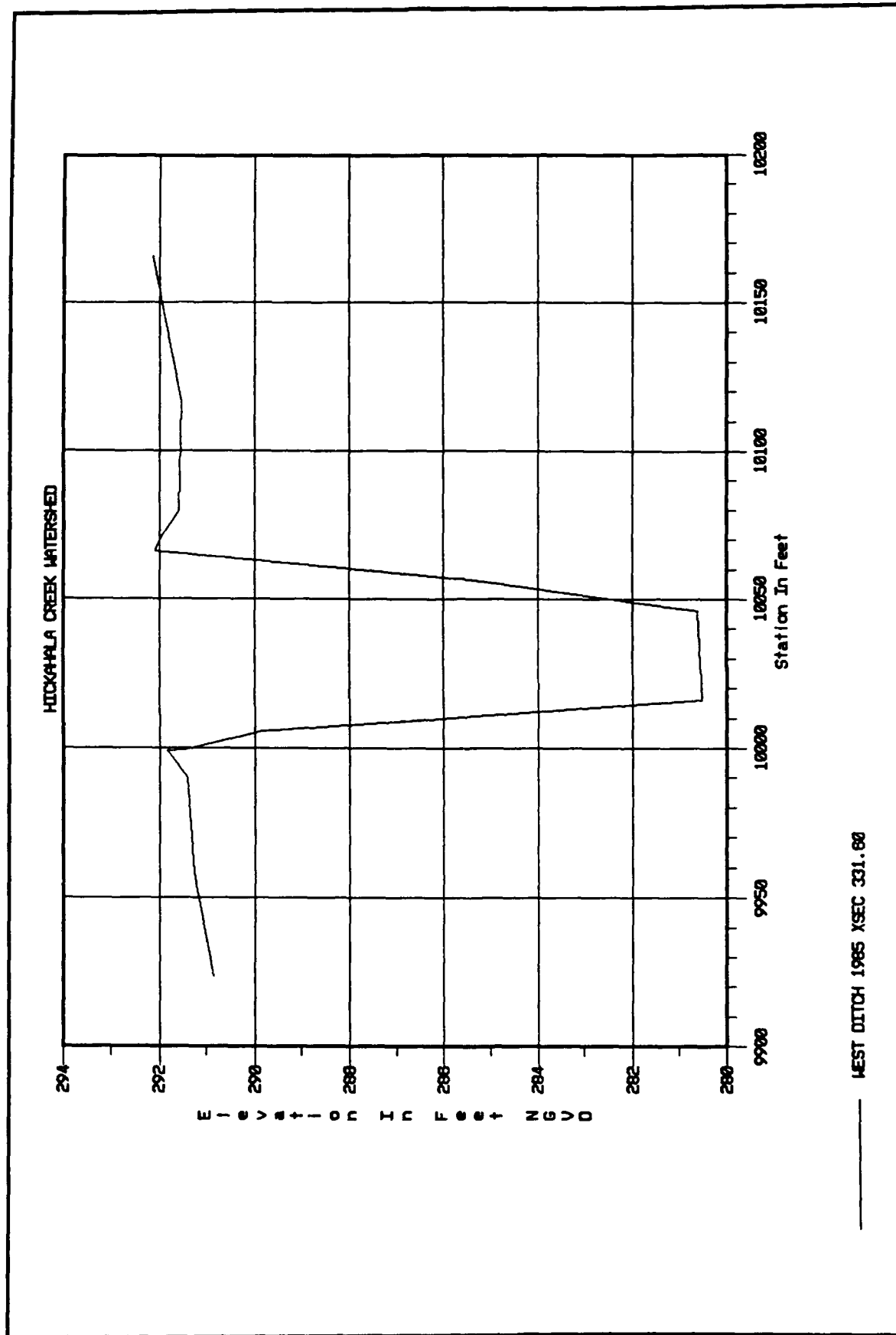


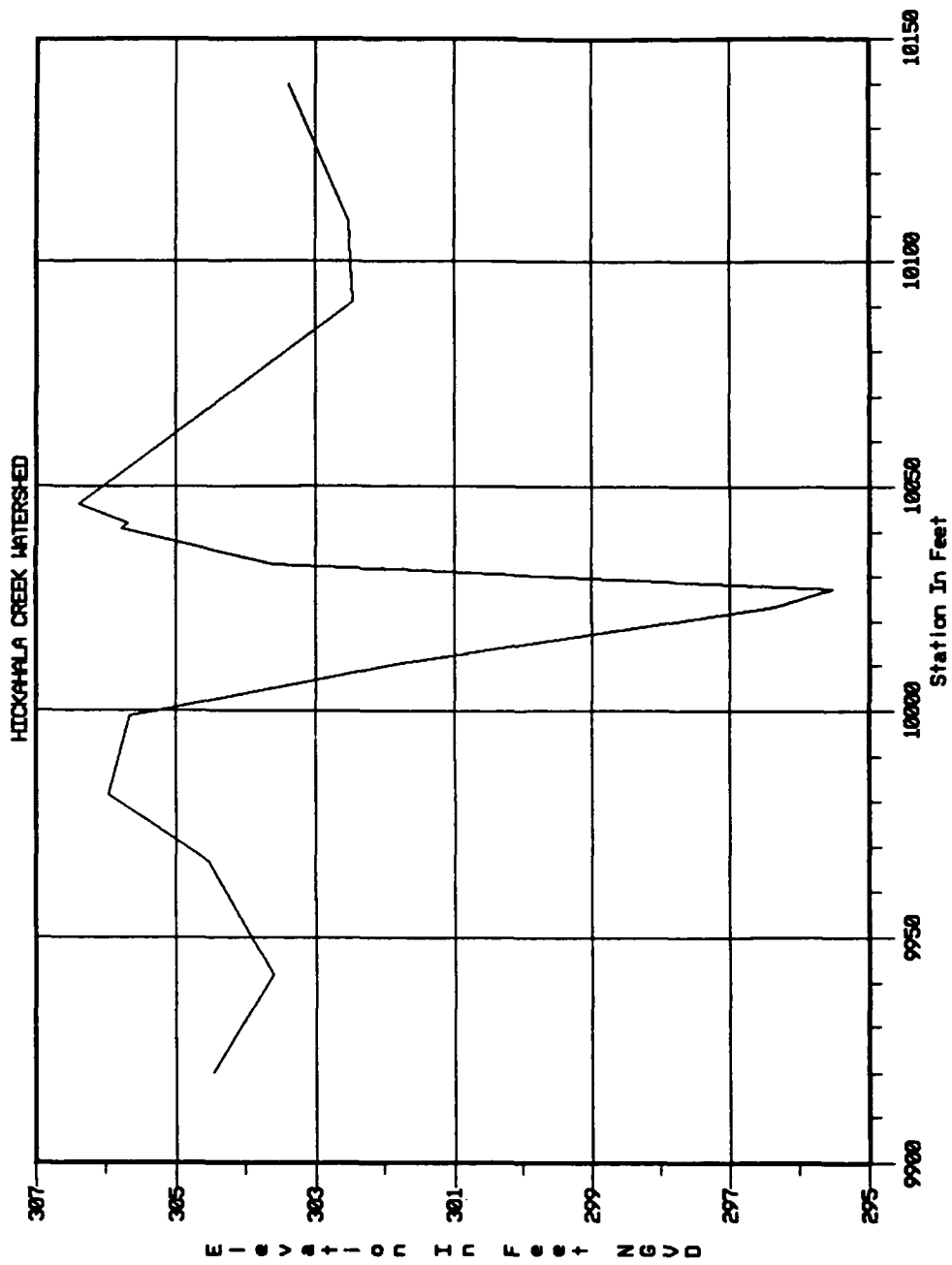
WEST DITCH 1985 XSEC 252.00





WEST DITCH 1985 XSEC 298.98





WEST DITCH 1985 XSEC 388.30

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